

FIG.1
PRIOR ART

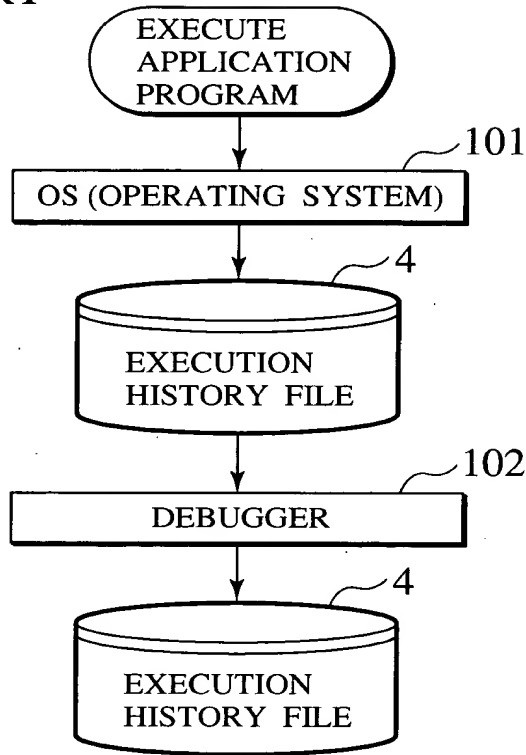


FIG.2
PRIOR ART

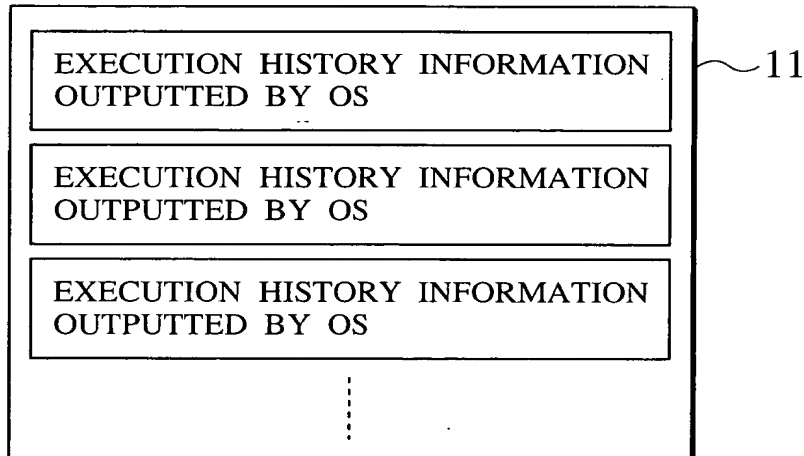


FIG.3A
PRIOR ART

type	oid	sysid	obj
------	-----	-------	-----

FIG.3B
PRIOR ART

6	0	1		... (i)
1	1	-9	2	... (ii)
1	1	-9	3	... (iii)
1	1	-17		... (iv)
6	1	3		... (v)
1	3	-19	1	... (vi)
6	3	1		... (vii)
	⋮			

WHERE

sysid : sta_txt ... -9
: ext_txt ... -10
: slp_txt ... -17
: wup_txt ... -19

FIG.4

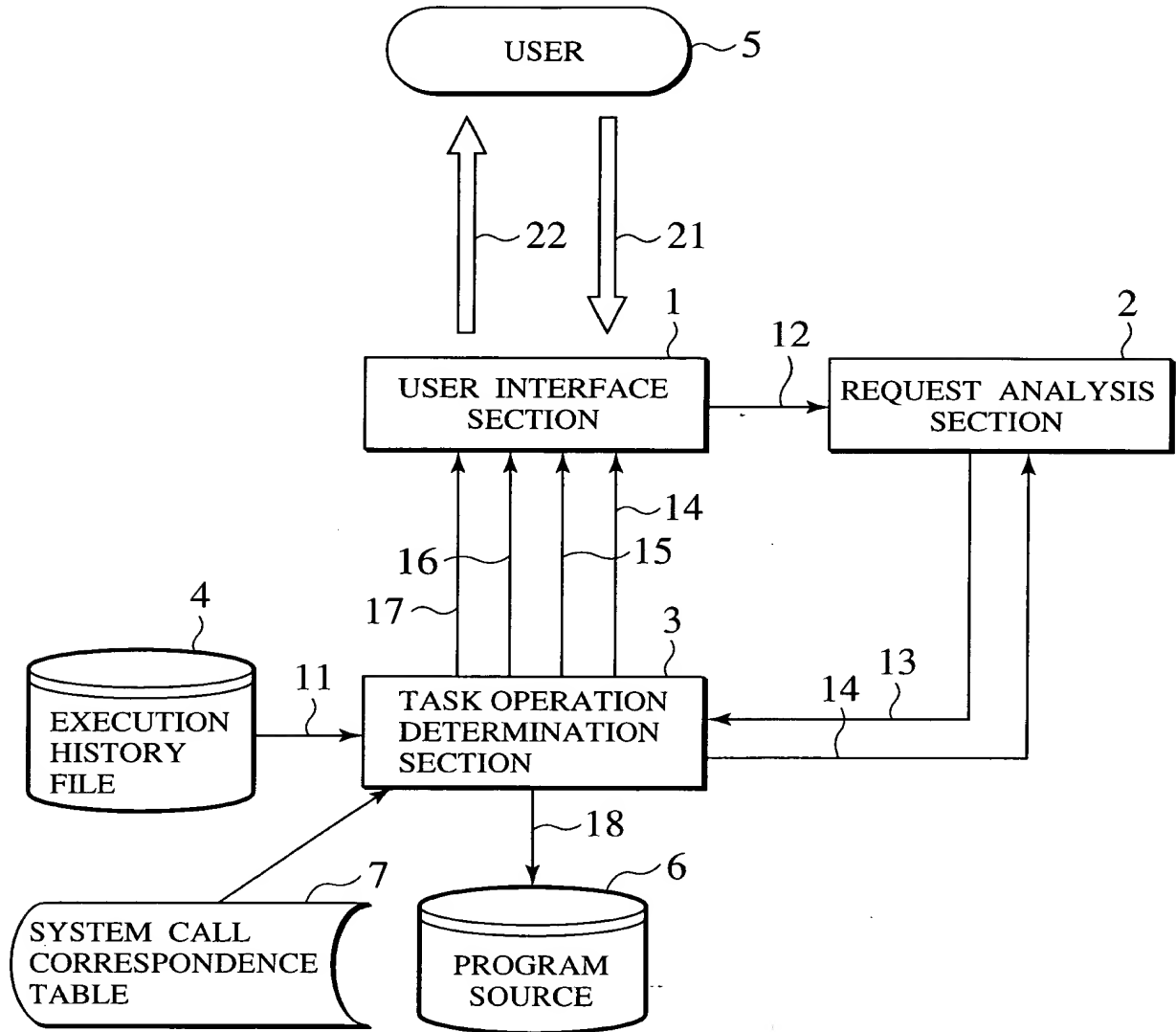


FIG.5

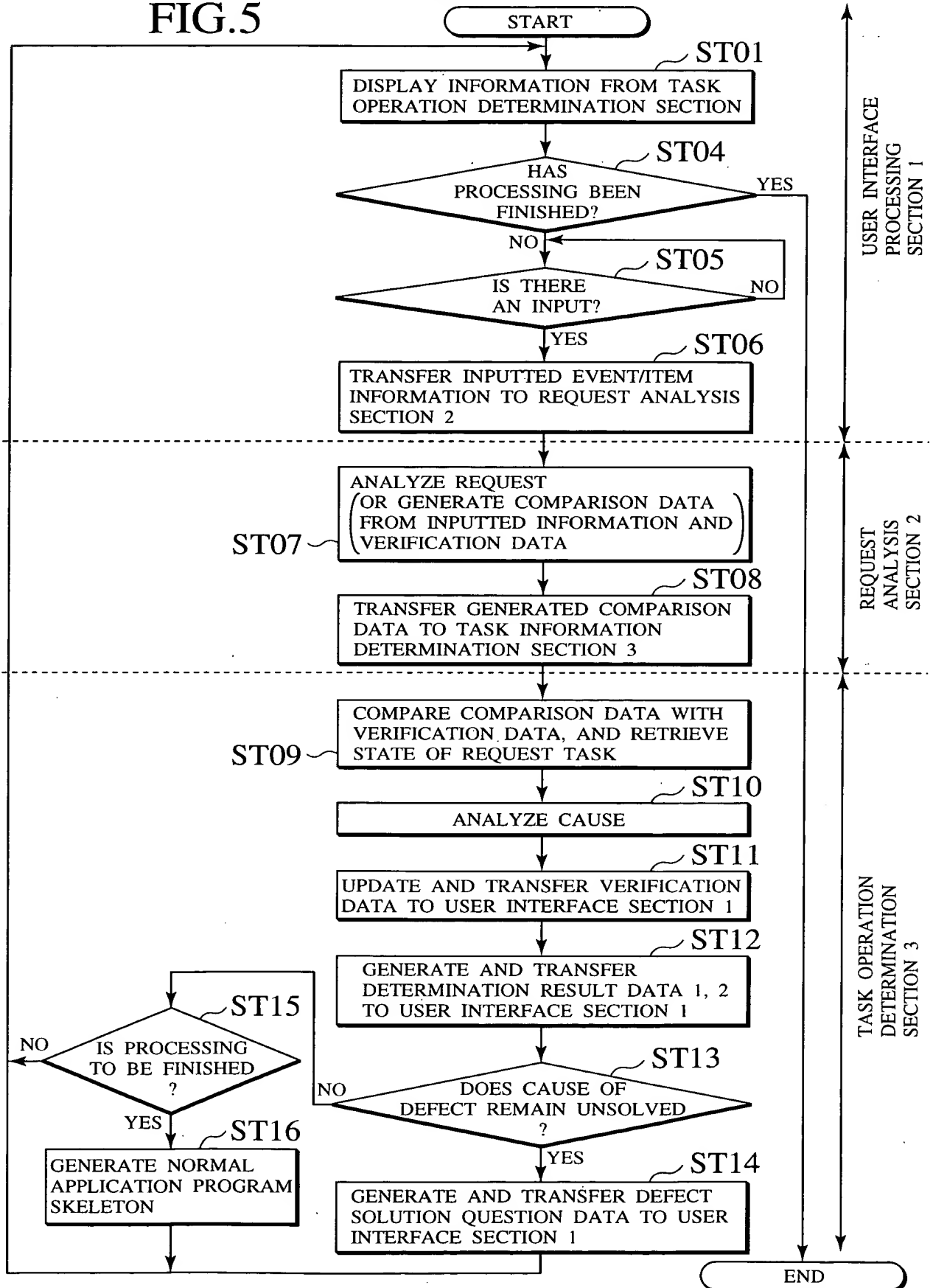


FIG.6 5/40

ORDER OF EVENTS	EVENT ATTRIBUTE (ISSUANCE OF SYSTEM CALL)	ISSUED SYSTEM CALL	ISSUANCE ORIGINATION TASK ID	ISSUANCE ORIGINATION TASK PRIORITY
ORDER OF EVENTS	EVENT ATTRIBUTE (DISPATCH)	DISPATCH ORIGINATION TASK ID	DISPATCH ORIGINATION TASK PRIORITY	DISPATCH DESTINATION TASK ID
ORDER OF EVENTS	EVENT ATTRIBUTE (INTERRUPTION PROCESSING)	HANDLER ATTRIBUTE (CYCLE START HANDLER, ALARM HANDLER, INTERRUPTION HANDLER)	HANDLER NO.	—
⋮	⋮	⋮	⋮	⋮

TASK STATE AFTER ISSUING ISSUANCE ORIGINATION TASK	ISSUANCE DESTINATION TASK ID (ISSUANCE DESTINATION RESOURCE)	ISSUANCE DESTINATION TASK PRIORITY (ISSUANCE DESTINATION ID)	TASK STATE AFTER ISSUING ISSUANCE DESTINATION TASK
DISPATCH DESTINATION PRIORITY	—	—	—
—	—	—	—
⋮	⋮	⋮	⋮

EVENT ATTRIBUTE : ISSUANCE OF SYSTEM CALL
DISPATCH INTERRUPTION PROCESSING
HANDLER ATTRIBUTE : CYCLE START HANDLER
ALARM HANDLER
INTERRUPTION HANDLER

FIG.7

N	PRIOR EVENT	POSTERIOR EVENT	ITEM (TASK(y))
	⋮	⋮	⋮

TIMING (X)

FIG.8

(1)N	(2)REQUEST TASK	(3)STATE OF REQUEST TASK
⋮	⋮	⋮
⋮	⋮	⋮

FIG.9

(1)N	(2)TASK IN RUN STATE AT THE END OF EVENTS	(3)ext_tsk
⋮	⋮	⋮
⋮	⋮	⋮

FIG.10

(1)N	(2)ISSUANCE TARGET TO WHICH SYSTEM CALL FOR TURNING REQUEST TASK IN READY STATE IS ISSUED	(3)SYSTEM CALL FOR TURNING REQUEST TASK IN READY STATE
⋮	⋮	⋮
⋮	⋮	⋮

FIG.11

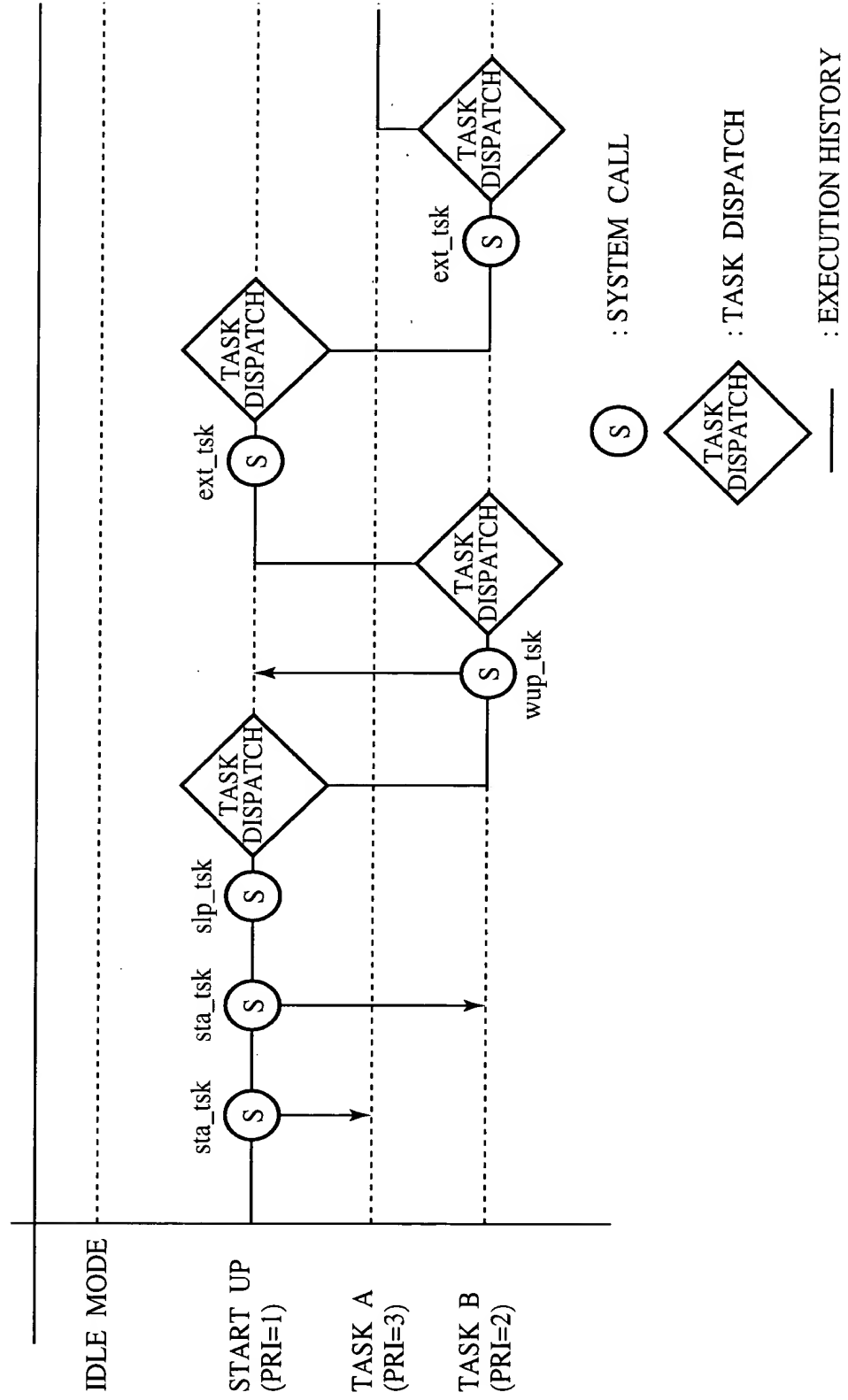


FIG.12

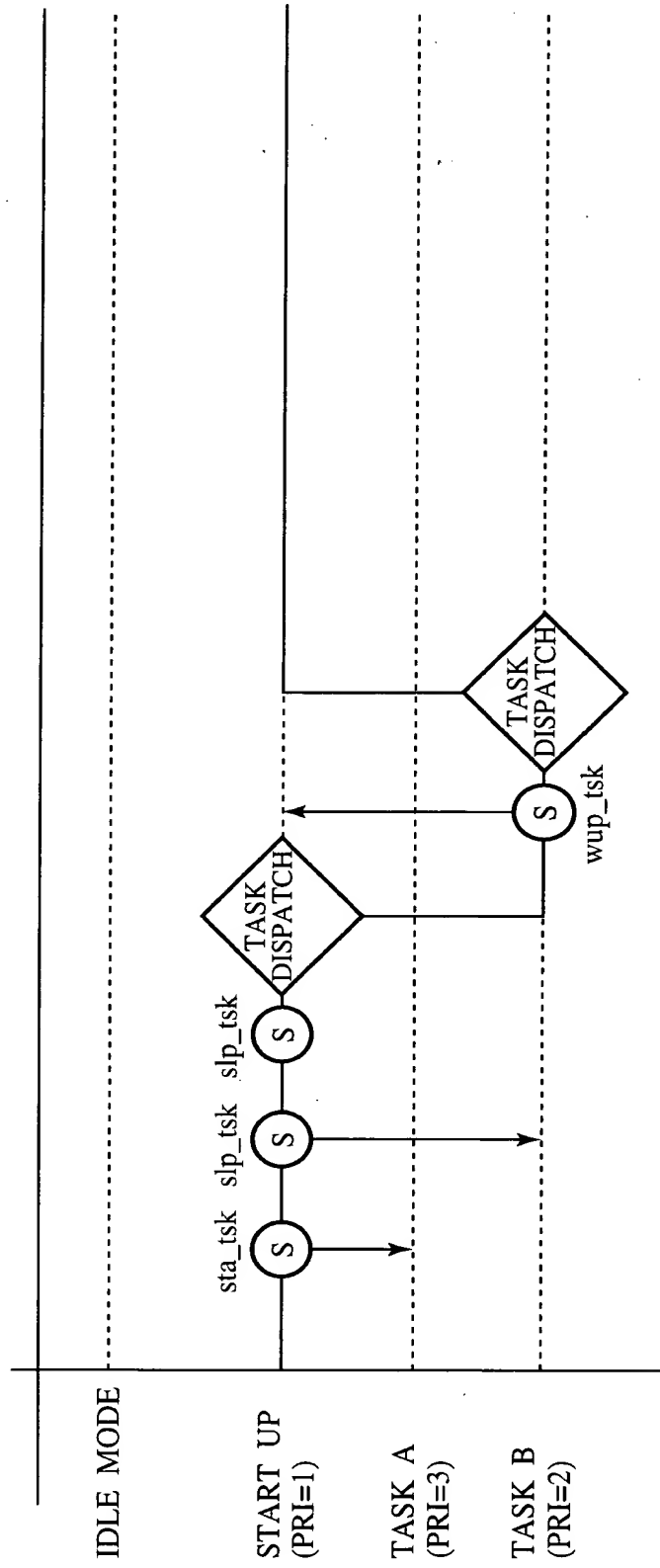


FIG.13

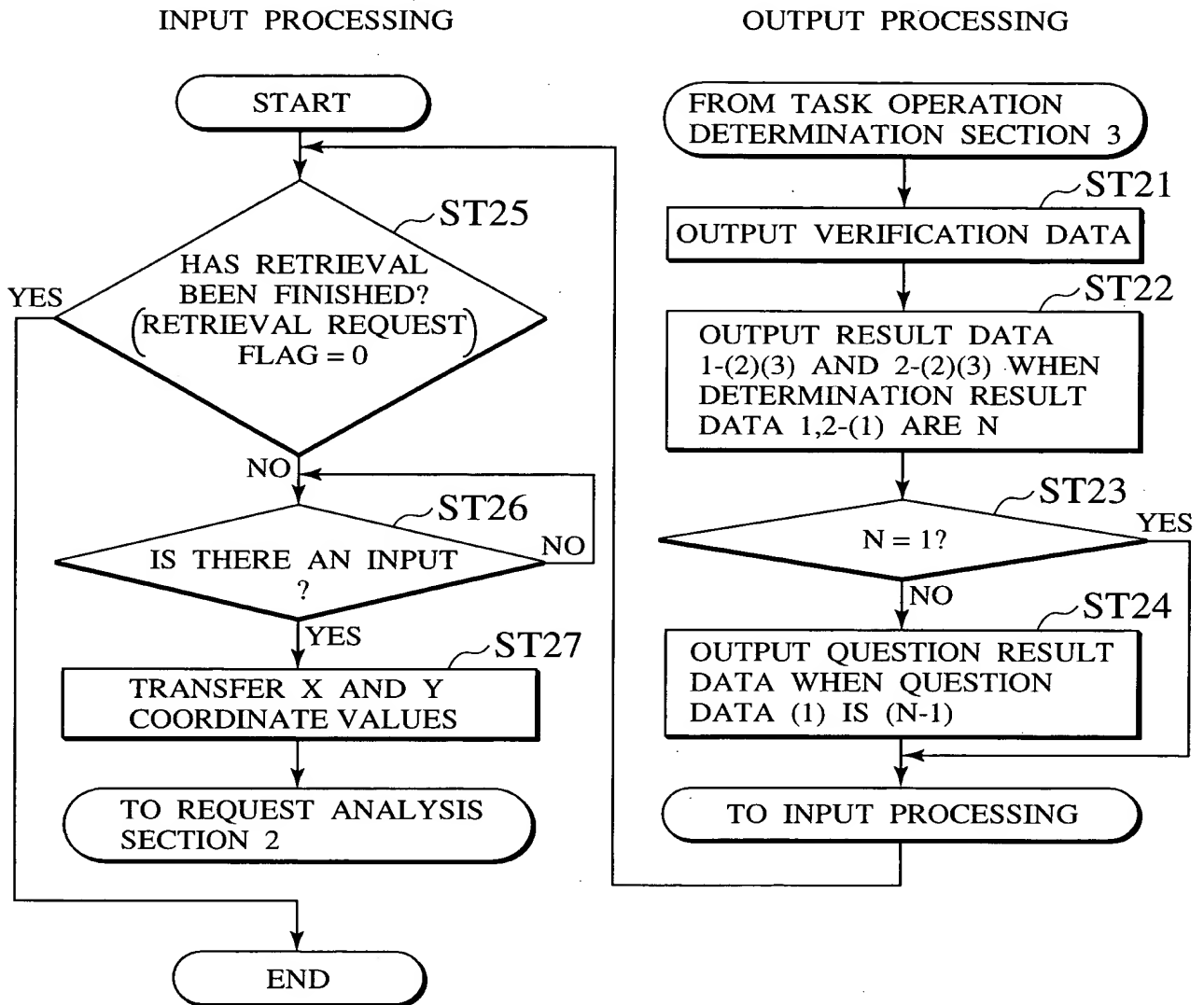
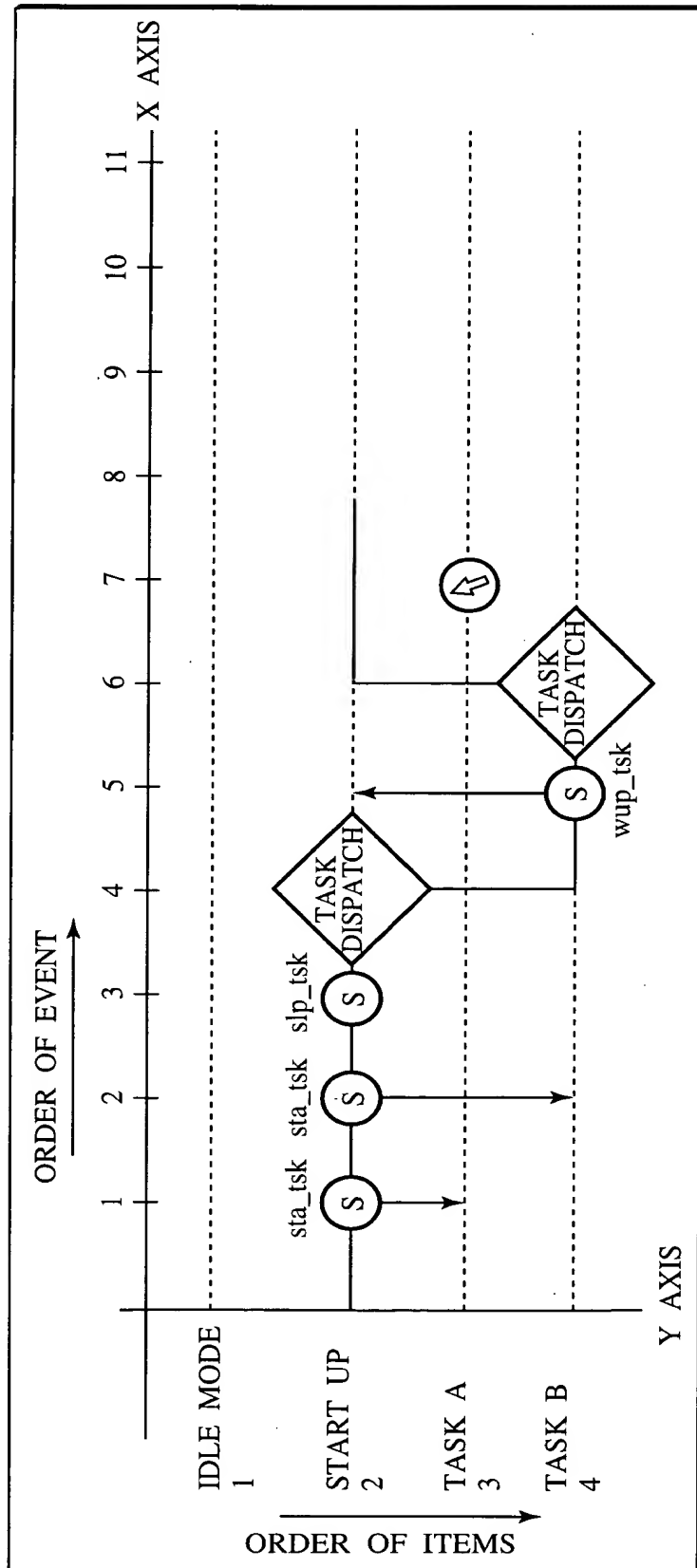


FIG.14



INPUT CONDITIONS : ONLY LINE INDICATING
EXECUTION HISTORY CAN
BE DEFINED

Ⓜ : MOUSE CURSOR

MAKE MOUSE CURSOR CLOSER TO PLACE
TO WHICH SYSTEM CALL IS TO BE ISSUED

X AXIS	7
Y AXIS	3

FIG.15

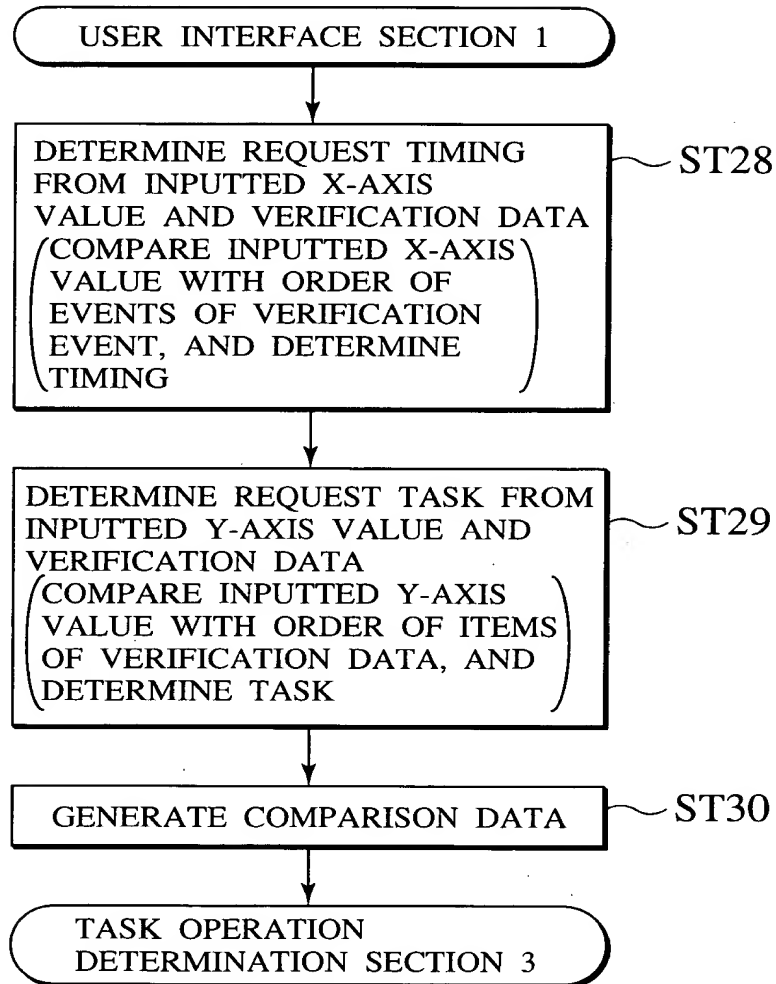
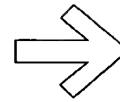
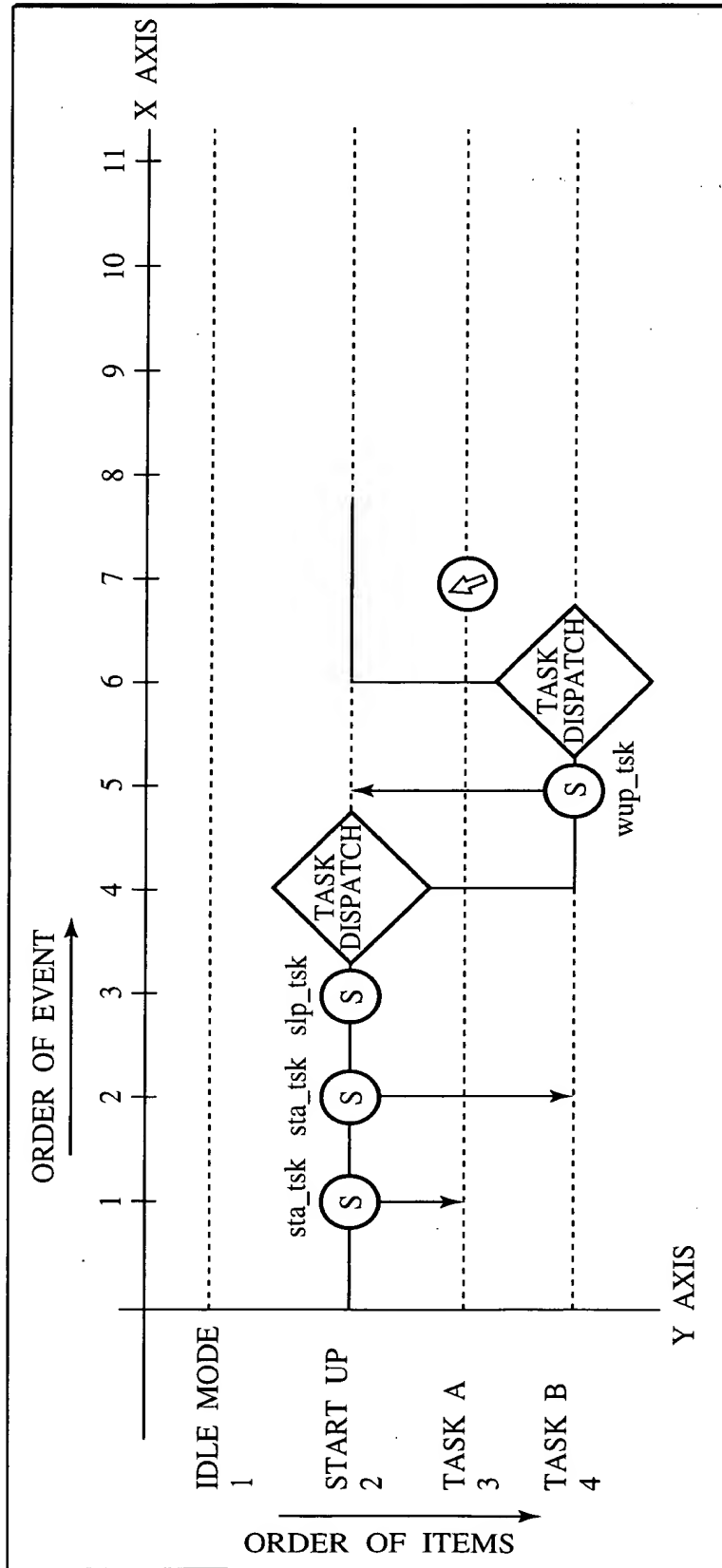


FIG.16



IF MOUSE CURSOR IS MADE CLOSER TO PLACE TO WHICH SYSTEM CALL IS TO BE ISSUED

(FIRST INPUT)

X AXIS	7
Y AXIS	3

→

COMPARISON DATA

1	7	7	TASK A
---	---	---	--------

REQUEST TIMING REQUEST TASK

FIG. 17

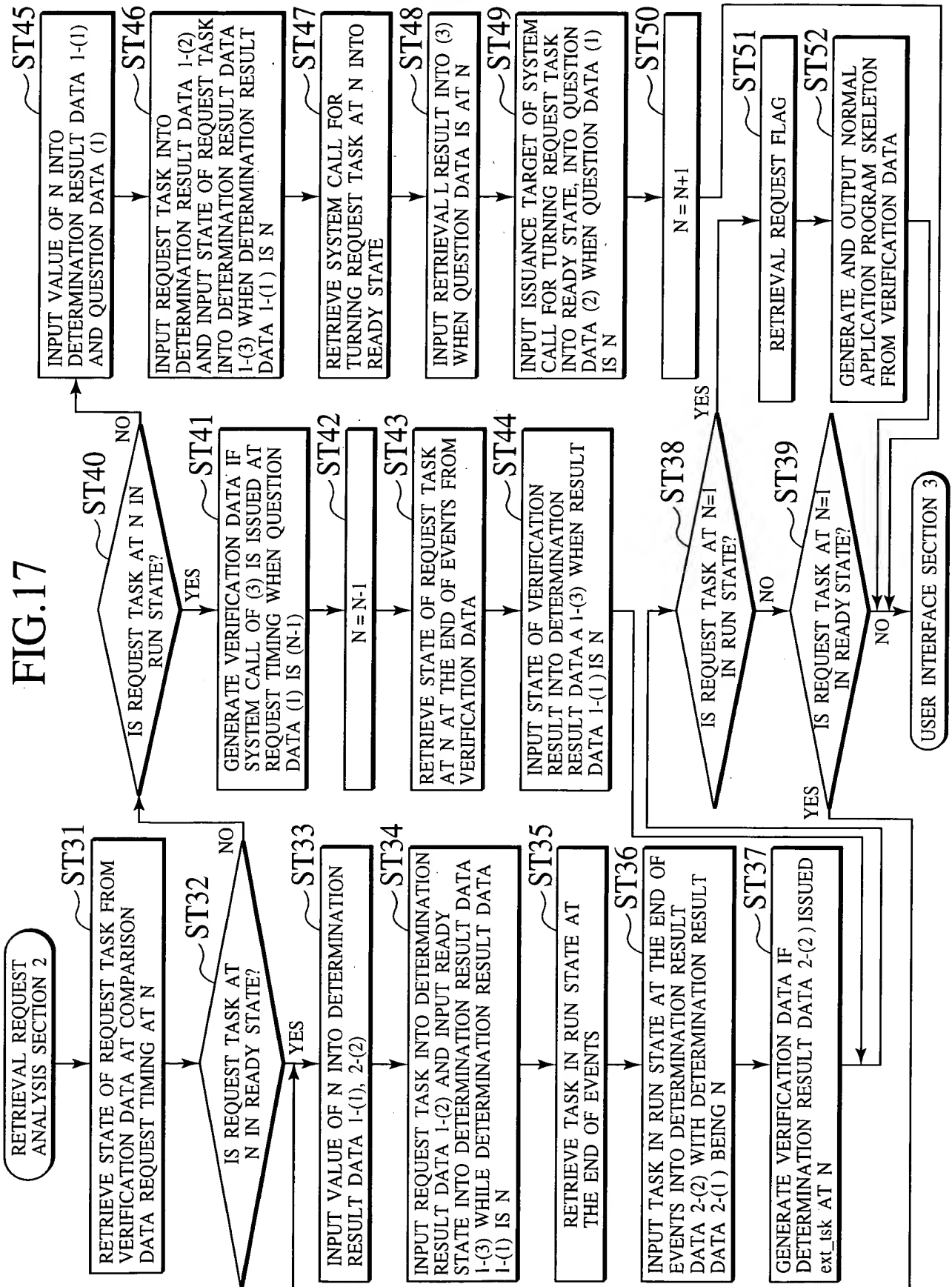


FIG.18

〈SYSTEM CALL CORRESPONDENCE TABLE〉

NO	SYSTEM CALL	CORRESPONDING SYSTEM CALL
1	sta_tsk	ext_tsk
2	slp_tsk	wup_tsk
3	wai_sem	sig_sem
⋮	⋮	⋮

FIG.19

●[PROCESSING 1]→[FIRST REQUEST]
 (VERIFICATION DATA)

ORDER OF EVENTS	EVENT ATTRIBUTE	ISSUED SYSTEM CALL	HANDLER ATTRIBUTE	HANDLER NO.	ISSUANCE ORIGINATION TASK ID	ISSUANCE ORIGINATION TASK PRIORITY	TASK STATE AFTER ISSUING ISSUANCE ORIGINATION TASK	ISSUANCE DESTINATION TASK ID (ISSUANCE DESTINATION RESOURCE)	ISSUANCE DESTINATION TASK PRIORITY (ISSUANCE DESTINATION ID)	TASK STATE AFTER ISSUING ISSUANCE DESTINATION TASK
1	SYSTEM CALL	sta_isk	—	—	START UP	1	RUNNING	TASK A	3	READY
2	SYSTEM CALL	sta_isk	—	—	START UP	1	RUNNING	TASK B	2	READY
3	SYSTEM CALL	slp_isk	—	—	START UP	1	WAITING	—	—	—
4	TASK DISPATCH	—	—	—	START UP	1	—	TASK B	2	RUNNING
5	SYSTEM CALL	wup_isk	—	—	TASK B	2	READY	START UP	1	READY
6	TASK DISPATCH	—	—	—	TASK B	2	—	START UP	1	RUNNING

(COMPARISON DATA)

N	PRIOR EVENT	POSTERIOR EVENT	ITEM (TASK(y))
1	7	7	TASK A

★

(DEFECT SOLUTION QUESTION DATA)

(1)N	(2)ISSUANCE TARGET TO WHICH SYSTEM CALL FOR TURNING REQUEST TASK IN READY STATE IS ISSUED	(3)SYSTEM CALL FOR TURNING REQUEST TASK IN READY STATE

(DETERMINATION RESULT DATA 1)

(1)N	(2)REQUEST TASK	(3)STATE OF REQUEST TASK

(DETERMINATION RESULT DATA 2)

(1)N	(2)TASK IN RUN STATE AT THE END OF EVENTS	(3)ext_isk

FIG.20

●[PROCESSING 2]→[PROCESSING COMPLETED]
(VERIFICATION DATA)

ORDER OF EVENTS	EVENT ATTRIBUTE	ISSUED SYSTEM CALL	HANDLER ATTRIBUTE	HANDLER NO.	ISSUANCE ORIGINATION TASK ID	ISSUANCE ORIGINATION TASK PRIORITY	TASK STATE AFTER ISSUING ISSUANCE ORIGINATION TASK	TASK STATE AFTER ISSUING ISSUANCE DESTINATION TASK	ISSUANCE DESTINATION TASK ID (ISSUANCE DESTINATION RESOURCE)	ISSUANCE DESTINATION TASK PRIORITY (ISSUANCE DESTINATION ID)	TASK STATE AFTER ISSUING ISSUANCE DESTINATION TASK
1	SYSTEM CALL	sta_tsk	—	—	START UP	1	RUNNING	RUNNING	TASK A	3	READY
2	SYSTEM CALL	sta_tsk	—	—	START UP	1	RUNNING	RUNNING	TASK B	2	READY
3	SYSTEM CALL	slp_tsk	—	—	START UP	1	WAITING	—	—	—	—
4	TASK DISPATCH	—	—	—	START UP	1	—	RUNNING	TASK B	2	RUNNING
5	SYSTEM CALL	wup_tsk	—	—	TASK B	2	RUNNING	RUNNING	START UP	1	READY
6	TASK DISPATCH	—	—	—	TASK B	2	—	RUNNING	START UP	1	RUNNING
7	SYSTEM CALL	ext_tsk	—	—	START UP	1	DORMANT	—	—	—	—
8	TASK DISPATCH	—	—	—	START UP	1	—	—	TASK B	2	RUNNING
9	SYSTEM CALL	ext_tsk	—	—	TASK B	2	DORMANT	—	—	—	—
10	TASK DISPATCH	—	—	—	TASK B	2	—	RUNNING	TASK A	3	RUNNING

(COMPARISON DATA)

N	PRIOR EVENT	POSTERIOR EVENT	ITEM (TASK(y))
1	7	7	TASK A

(DEFECT SOLUTION QUESTION DATA)

(1)N	(2)ISSUANCE TARGET TO WHICH SYSTEM CALL FOR TURNING REQUEST TASK IN READY STATE IS ISSUED	(3)SYSTEM CALL FOR TURNING REQUEST TASK IN READY STATE

(DETERMINATION RESULT DATA 1)

(1)N	(2)REQUEST TASK	(3)STATE OF REQUEST TASK
1	TASK A	READY
1	TASK A	READY

(DETERMINATION RESULT DATA 2)

(1)N	(2)TASK IN RUN STATE AT THE END OF EVENTS	(3)ext_tsk
1	START UP	ext_tsk
1	TASK B	ext_tsk

FIG.21

```

/*****
File      : sample.c
Data      : 1999/11/11
Developer : TOSHIBA
Application Skeleton
*****/
#include "itron.h"

#define TASK_ID1      1
#define TASK_ID2      2
#define TASK_ID3      3

TASK startup() :
TASK TaskA() :
TASK TaskB() :

TASK startup() :
{
    ER ercd ;

    ercd = sta_tsk(TASK_ID2,0) ;
    ercd = sta_tsk(TASK_ID3,0) ;
    ercd = slp_tsk() ;

    ext_tsk() ; ----- (a)
}

TASK TaskA()
{
    for( ; : ){
    }

}

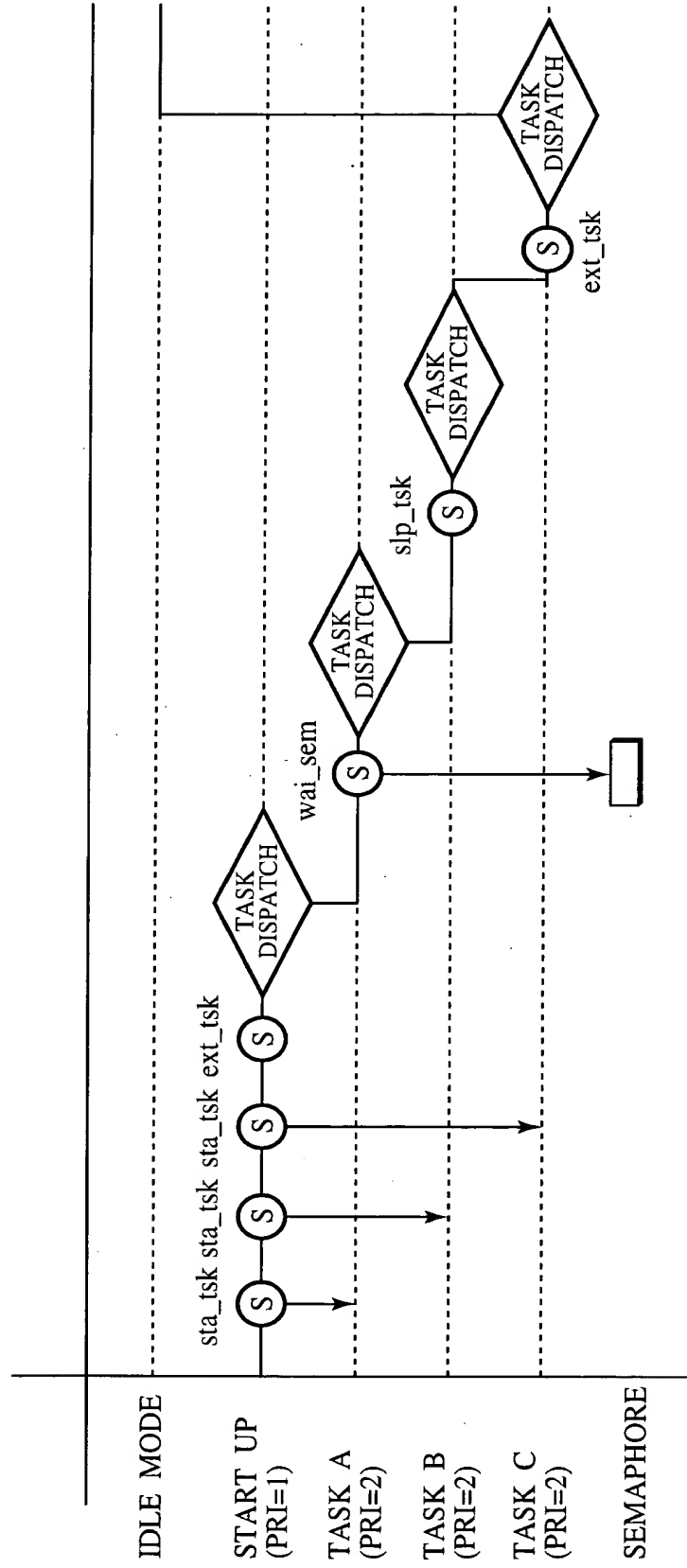
TASK TaskB()
{
    ER ercd ;

    ercd = wup_tsk(TASK_ID1) ;

    ext_tsk() ; ----- (b)
}

```


FIG.23



●[PROCESSING 1]→[FIRST REQUEST]
(VERIFICATION DATA)

FIG.24

ORDER OF EVENTS	EVENT ATTRIBUTE	ISSUED SYSTEM CALL	HANDLER ATTRIBUTE	HANDLER NO.	ISSUANCE ORIGINATION TASK ID	ISSUANCE ORIGINATION TASK PRIORITY	TASK STATE AFTER ISSUANCE ORIGINATION TASK	ISSUANCE DESTINATION TASK ID (ISSUANCE DESTINATION RESOURCE)	ISSUANCE DESTINATION TASK PRIORITY (ISSUANCE DESTINATION ID)	TASK STATE AFTER ISSUANCE DESTINATION TASK
1	SYSTEM CALL	sta_tsk	—	—	START UP	1	RUNNING	TASK A	2	READY
2	SYSTEM CALL	sta_tsk	—	—	START UP	1	RUNNING	TASK B	2	READY
3	SYSTEM CALL	sta_tsk	—	—	START UP	1	RUNNING	TASK C	2	READY
4	SYSTEM CALL	ext_tsk	—	—	START UP	1	DORMANT	—	—	—
5	TASK DISPATCH	—	—	—	START UP	1	—	TASK A	2	RUNNING
6	SYSTEM CALL	wai_sem	—	—	TASK A	2	WAITING	SEMAPHORE	1	—
7	TASK DISPATCH	—	—	—	TASK A	2	—	TASK B	2	RUNNING
8	SYSTEM CALL	slp_tsk	—	—	TASK B	2	WAITING	—	—	—
9	TASK DISPATCH	—	—	—	TASK B	2	—	TASK C	2	RUNNING
10	SYSTEM CALL	ext_tsk	—	—	TASK C	2	DORMANT	—	—	—
11	TASK DISPATCH	—	—	—	TASK C	2	—	IDLE MODE	—	—

(COMPARISON DATA)

N	PRIOR EVENT	POSTERIOR EVENT	ITEM (TASK(y))
1	12	12	TASK B

(DEFECT SOLUTION QUESTION DATA)

(1)N	(2)ISSUANCE TARGET TO WHICH SYSTEM CALL FOR TURNING REQUEST TASK IN READY STATE IS ISSUED	(3)SYSTEM CALL FOR TURNING REQUEST TASK IN READY STATE

(DETERMINATION RESULT DATA 1)

(1)N	(2)REQUEST TASK	(3)STATE OF REQUEST TASK

(DETERMINATION RESULT DATA 2)

(1)N	(2)TASK IN RUN STATE AT THE END OF EVENTS	(3)ext_tsk

●[PROCESSING 1]→[SECOND REQUEST]
(VERIFICATION DATA)

FIG.25

ORDER OF EVENTS	EVENT ATTRIBUTE	ISSUED SYSTEM CALL	HANDLER ATTRIBUTE	HANDLER NO.	ISSUANCE ORIGINATION TASK ID	ISSUANCE ORIGINATION TASK PRIORITY	TASK STATE AFTER ISSUANCE ORIGINATION TASK	TASK ID (ISSUANCE DESTINATION RESOURCE)	ISSUANCE DESTINATION TASK PRIORITY (ISSUANCE DESTINATION ID)	TASK STATE AFTER ISSUANCE DESTINATION TASK
1	SYSTEM CALL	sta_isk	—	—	START UP	1	RUNNING	TASK A	2	READY
2	SYSTEM CALL	sta_isk	—	—	START UP	1	RUNNING	TASK B	2	READY
3	SYSTEM CALL	sta_isk	—	—	START UP	1	RUNNING	TASK C	2	READY
4	SYSTEM CALL	ext_isk	—	—	START UP	1	DORMANT	—	—	—
5	TASK DISPATCH	—	—	—	START UP	1	—	TASK A	2	RUNNING
6	SYSTEM CALL	wai_sem	—	—	TASK A	2	WAITING	SEMAPHORE	1	—
7	TASK DISPATCH	—	—	—	TASK A	2	—	TASK B	2	RUNNING
8	SYSTEM CALL	slp_isk	—	—	TASK B	2	WAITING	—	—	—
9	TASK DISPATCH	—	—	—	TASK B	2	—	TASK C	2	RUNNING
10	SYSTEM CALL	ext_isk	—	—	TASK C	2	DORMANT	—	—	—
11	TASK DISPATCH	—	—	—	TASK C	2	—	IDLE MODE	—	—

(COMPARISON DATA)

N	PRIOR EVENT	POSTERIOR EVENT	ITEM (TASK(y))
1	12	12	TASK B
2	6	7	TASK A

(DETERMINATION RESULT DATA 1)

(1)N	(2)REQUEST TASK	(3)STATE OF REQUEST TASK
1	TASK B	WAITING

(DEFECT SOLUTION QUESTION DATA)

(1)N	(2)ISSUANCE TARGET TO WHICH SYSTEM CALL FOR TURNING REQUEST TASK IN READY STATE IS ISSUED	(3)SYSTEM CALL FOR TURNING REQUEST TASK IN READY STATE
1	TASK A	wup_isk

(DETERMINATION RESULT DATA 2)

(1)N	(2)TASK IN RUN STATE AT THE END OF EVENTS	(3)ext_isk
------	---	------------

●[PROCESSING 3]→[THIRD REQUEST]
(VERIFICATION DATA)

FIG.26

ORDER OF EVENTS	EVENT ATTRIBUTE	ISSUED SYSTEM CALL	HANDLER ATTRIBUTE	HANDLER NO.	ISSUANCE ORIGINATION TASK ID	ISSUANCE ORIGINATION TASK PRIORITY	TASK STATE AFTER ISSUANCE ORIGINATION TASK	TASK ID (ISSUANCE DESTINATION RESOURCE)	ISSUANCE DESTINATION TASK PRIORITY (ISSUANCE DESTINATION ID)	TASK STATE AFTER ISSUANCE DESTINATION TASK
1	SYSTEM CALL	sta_tsk	—	—	START UP	1	RUNNING	TASK A	2	READY
2	SYSTEM CALL	sta_tsk	—	—	START UP	1	RUNNING	TASK B	2	READY
3	SYSTEM CALL	sta_tsk	—	—	START UP	1	RUNNING	TASK C	2	READY
4	SYSTEM CALL	ext_tsk	—	—	START UP	1	DORMANT	—	—	—
5	TASK DISPATCH	—	—	—	START UP	1	—	TASK A	2	RUNNING
6	SYSTEM CALL	wai_sem	—	—	TASK A	2	WAITING	SEMAPHORE	1	—
7	TASK DISPATCH	—	—	—	TASK A	2	—	TASK B	2	RUNNING
8	SYSTEM CALL	slp_tsk	—	—	TASK B	2	WAITING	—	—	—
9	TASK DISPATCH	—	—	—	TASK B	2	—	TASK C	—	RUNNING
10	SYSTEM CALL	ext_tsk	—	—	TASK C	2	DORMANT	—	—	—
11	TASK DISPATCH	—	—	—	TASK C	2	—	IDLE MODE	—	—

(COMPARISON DATA)

N	PRIOR EVENT	POSTERIOR EVENT	ITEM (TASK(y))
1	12	12	TASK B
2	6	7	TASK A
3	9	10	TASK C

(DETERMINATION RESULT DATA 1)

(1)N	(2)REQUEST TASK	(3)STATE OF REQUEST TASK
1	TASK B	WAITING
2	TASK A	WAITING

(DEFECT SOLUTION QUESTION DATA)

(1)N	(2)ISSUANCE TARGET TO WHICH SYSTEM CALL FOR TURNING REQUEST TASK IN READY STATE IS ISSUED	(3)SYSTEM CALL FOR TURNING REQUEST TASK IN READY STATE
1	TASK A	wup_tsk
2	TASK C	sig_sem

(DETERMINATION RESULT DATA 2)

(1)N	(2)TASK IN RUN STATE AT THE END OF EVENTS	(3)ext_tsk

●[PROCESSING 3]→[THIRD REQUEST]
(VERIFICATION DATA)

ORDER OF EVENTS	EVENT ATTRIBUTE	ISSUED SYSTEM CALL	HANDLER ATTRIBUTE	HANDLER NO.	ISSUANCE ORIGINATION TASK ID	ISSUANCE ORIGINATION TASK PRIORITY	TASK STATE AFTER ISSUING ORIGINATION TASK	ISSUANCE DESTINATION TASK ID (ISSUANCE DESTINATION RESOURCE)	ISSUANCE DESTINATION TASK PRIORITY (ISSUANCE DESTINATION ID)	TASK STATE AFTER ISSUING ISSUANCE DESTINATION TASK
1	SYSTEM CALL	sta_task	—	—	START UP	1	RUNNING	TASK A	2	READY
2	SYSTEM CALL	sta_task	—	—	START UP	1	RUNNING	TASK B	2	READY
3	SYSTEM CALL	sta_task	—	—	START UP	1	RUNNING	TASK C	2	READY
4	SYSTEM CALL	ext_task	—	—	START UP	1	DORMANT	—	—	—
5	TASK DISPATCH	—	—	—	START UP	1	—	TASK A	2	RUNNING
6	SYSTEM CALL	wai_sem	—	—	TASK A	2	WAITING	SEMAPHORE	1	—
7	TASK DISPATCH	—	—	—	TASK A	2	—	TASK B	2	RUNNING
8	SYSTEM CALL	slp_task	—	—	TASK B	2	WAITING	—	—	—
9	TASK DISPATCH	—	—	—	TASK B	2	—	TASK C	2	RUNNING
10	SYSTEM CALL	sig_sem	—	—	TASK C	2	RUNNING	SEMAPHORE	1	—
11	SYSTEM CALL	ext_task	—	—	TASK C	2	DORMANT	—	—	—
12	TASK DISPATCH	—	—	—	TASK C	2	—	TASK A	2	RUNNING

(COMPARISON DATA)

N	PRIOR EVENT	POSTERIOR EVENT	ITEM (TASK(y))
1	12	12	TASK B
2	6	7	TASK A
3	9	10	TASK C

(DETERMINATION RESULT DATA 1)

(1)N	(2)REQUEST TASK	(3)STATE OF REQUEST TASK
1	TASK B	WAITING
2	TASK A	RUNNING

(DEFECT SOLUTION QUESTION DATA)

(1)N	(2)ISSUANCE TARGET TO WHICH SYSTEM CALL FOR TURNING REQUEST TASK IN READY STATE IS ISSUED	(3)SYSTEM CALL FOR TURNING REQUEST TASK IN READY STATE
1	TASK A	wup_task
2	TASK C	sig_sem

(DETERMINATION RESULT DATA 2)

(1)N	(2)TASK IN RUN STATE AT THE END OF EVENTS	(3)ext_task

FIG.27

FIG.28

●[PROCESSING 5]→[FIFTH REQUEST]
(VERIFICATION DATA)

ORDER OF EVENTS	EVENT ATTRIBUTE	ISSUED SYSTEM CALL	HANDLER ATTRIBUTE	HANDLER NO.	ISSUANCE ORIGATION TASK ID	ISSUANCE ORIGATION TASK PRIORITY	TASK STATE AFTER ISSUANCE ORIGATION TASK	ISSUANCE DESTINATION TASK ID (ISSUANCE DESTINATION RESOURCE)	ISSUANCE DESTINATION TASK PRIORITY (ISSUANCE DESTINATION ID)	TASK STATE AFTER ISSUANCE DESTINATION TASK
1	SYSTEM CALL	sta_tsk	—	—	START UP	1	RUNNING	TASK A	2	READY
2	SYSTEM CALL	sta_tsk	—	—	START UP	1	RUNNING	TASK B	2	READY
3	SYSTEM CALL	sta_tsk	—	—	START UP	1	RUNNING	TASK C	2	READY
4	SYSTEM CALL	ext_tsk	—	—	START UP	1	DORMANT	—	—	—
5	TASK DISPATCH	—	—	—	START UP	1	—	TASK A	2	RUNNING
6	SYSTEM CALL	wai_sem	—	—	TASK A	2	WAITING	SEMAPHORE	1	—
7	TASK DISPATCH	—	—	—	TASK A	2	—	TASK B	2	RUNNING
8	SYSTEM CALL	slp_tsk	—	—	TASK B	2	WAITING	—	—	—
9	TASK DISPATCH	—	—	—	TASK B	2	—	TASK C	2	RUNNING
10	SYSTEM CALL	sig_sem	—	—	TASK C	2	RUNNING	SEMAPHORE	1	—
11	SYSTEM CALL	ext_tsk	—	—	TASK C	2	DORMANT	—	—	—
12	TASK DISPATCH	—	—	—	TASK C	2	—	TASK A	2	RUNNING
13	SYSTEM CALL	wup_tsk	—	—	TASK A	2	RUNNING	TASK B	2	READY
14	SYSTEM CALL	ext_tsk	—	—	TASK A	2	DORMANT	—	—	—
15	TASK DISPATCH	—	—	—	TASK A	2	—	TASK B	2	RUNNING

(COMPARISON DATA)

N	PRIOR EVENT	POSTERIOR EVENT	ITEM (TASK(y))
1	12	12	TASK B
2	6	7	TASK A
3	9	10	TASK C
1	13	13	TASK B
2	11	12	TASK A

(DETERMINATION RESULT DATA 1)

(1)N	(2)REQUEST TASK	(3)STATE OF REQUEST TASK
1	TASK B	RUNNING
2	TASK A	RUNNING

(DEFECT SOLUTION QUESTION DATA)

(1)N	(2)ISSUANCE TARGET TO WHICH SYSTEM CALL FOR TURNING REQUEST TASK IN READY STATE IS ISSUED	(3)SYSTEM CALL FOR TURNING REQUEST TASK IN READY STATE
1	TASK A	wup_tsk
2	TASK C	sig_sem

(DETERMINATION RESULT DATA 2)

(1)N	(2)TASK IN RUN STATE AT THE END OF EVENTS	(3)ext_tsk
1	TASK A	ext_tsk

●[PROCESSING 6]→[PROCESSING COMPLETED]
 (VERIFICATION DATA)

ORDER OF EVENTS	EVENT ATTRIBUTE	ISSUED SYSTEM CALL	HANDLER ATTRIBUTE	HANDLER NO.	ISSUANCE ORIGINATION TASK ID	ISSUANCE ORIGINATION TASK PRIORITY	TASK STATE AFTER ISSUANCE ORIGINATION TASK	ISSUANCE DESTINATION TASK ID (ISSUANCE DESTINATION RESOURCE)	ISSUANCE DESTINATION TASK PRIORITY (ISSUANCE DESTINATION ID)	TASK STATE AFTER ISSUANCE DESTINATION TASK
1	SYSTEM CALL	sta_isk	—	—	START UP	1	RUNNING	TASK A	2	READY
2	SYSTEM CALL	sta_isk	—	—	START UP	1	RUNNING	TASK B	2	READY
3	SYSTEM CALL	sta_isk	—	—	START UP	1	RUNNING	TASK C	2	READY
4	SYSTEM CALL	ext_isk	—	—	START UP	1	DORMANT	—	—	—
5	TASK DISPATCH	—	—	—	START UP	1	—	TASK A	2	RUNNING
6	SYSTEM CALL	wai_sem	—	—	TASK A	2	WAITING	SEMAPHORE	1	—
7	TASK DISPATCH	—	—	—	TASK A	2	—	TASK B	2	RUNNING
8	SYSTEM CALL	slp_isk	—	—	TASK B	2	WAITING	—	—	—
9	TASK DISPATCH	—	—	—	TASK B	2	—	TASK C	2	RUNNING
10	SYSTEM CALL	sig_sem	—	—	TASK C	2	RUNNING	SEMAPHORE	1	—
11	SYSTEM CALL	ext_isk	—	—	TASK C	2	DORMANT	—	—	—
12	TASK DISPATCH	—	—	—	TASK C	2	—	TASK A	2	RUNNING
13	SYSTEM CALL	wup_isk	—	—	TASK A	2	RUNNING	TASK B	2	READY
14	SYSTEM CALL	ext_isk	—	—	TASK A	2	DORMANT	—	—	—
15	TASK DISPATCH	—	—	—	TASK A	2	—	TASK B	2	RUNNING

(COMPARISON DATA)

N	PRIOR EVENT	POSTERIOR EVENT	ITEM (TASK(y))
1	12	12	TASK B
2	6	7	TASK A
3	9	10	TASK C
1	13	13	TASK B
2	6	7	TASK A

(DETERMINATION RESULT DATA 1)

(1)N	(2)REQUEST TASK	(3)STATE OF REQUEST TASK
1	TASK B	READY
2	TASK A	RUNNING

(DEFECT SOLUTION QUESTION DATA)

(1)N	(2)ISSUANCE TARGET TO WHICH SYSTEM CALL FOR TURNING REQUEST TASK IN READY STATE IS ISSUED	(3)SYSTEM CALL FOR TURNING REQUEST TASK IN READY STATE
1	TASK A	wup_isk
2	TASK C	sig_sem

(DETERMINATION RESULT DATA 2)

(1)N	(2)TASK IN RUN STATE AT THE END OF EVENTS	(3)ext_isk
1	TASK A	ext_isk

FIG.29

FIG.30

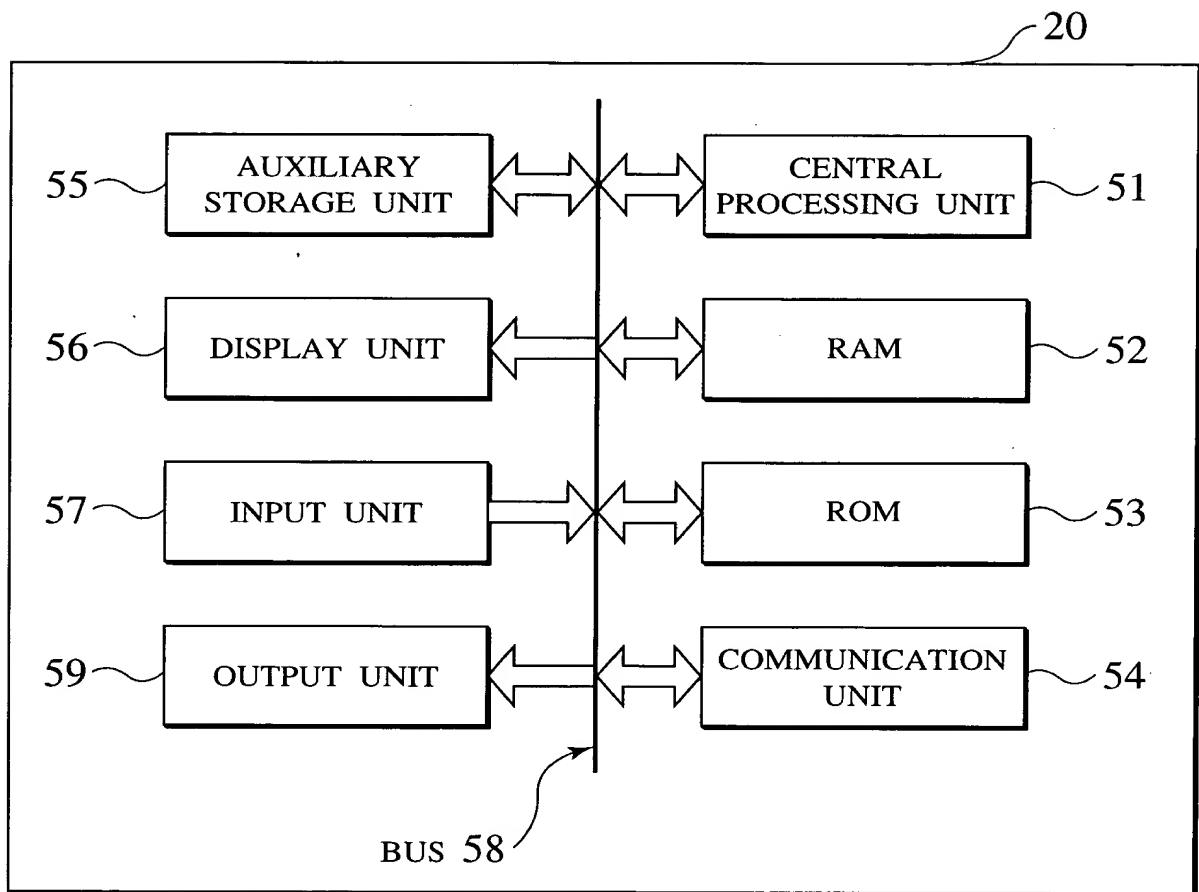


FIG.31

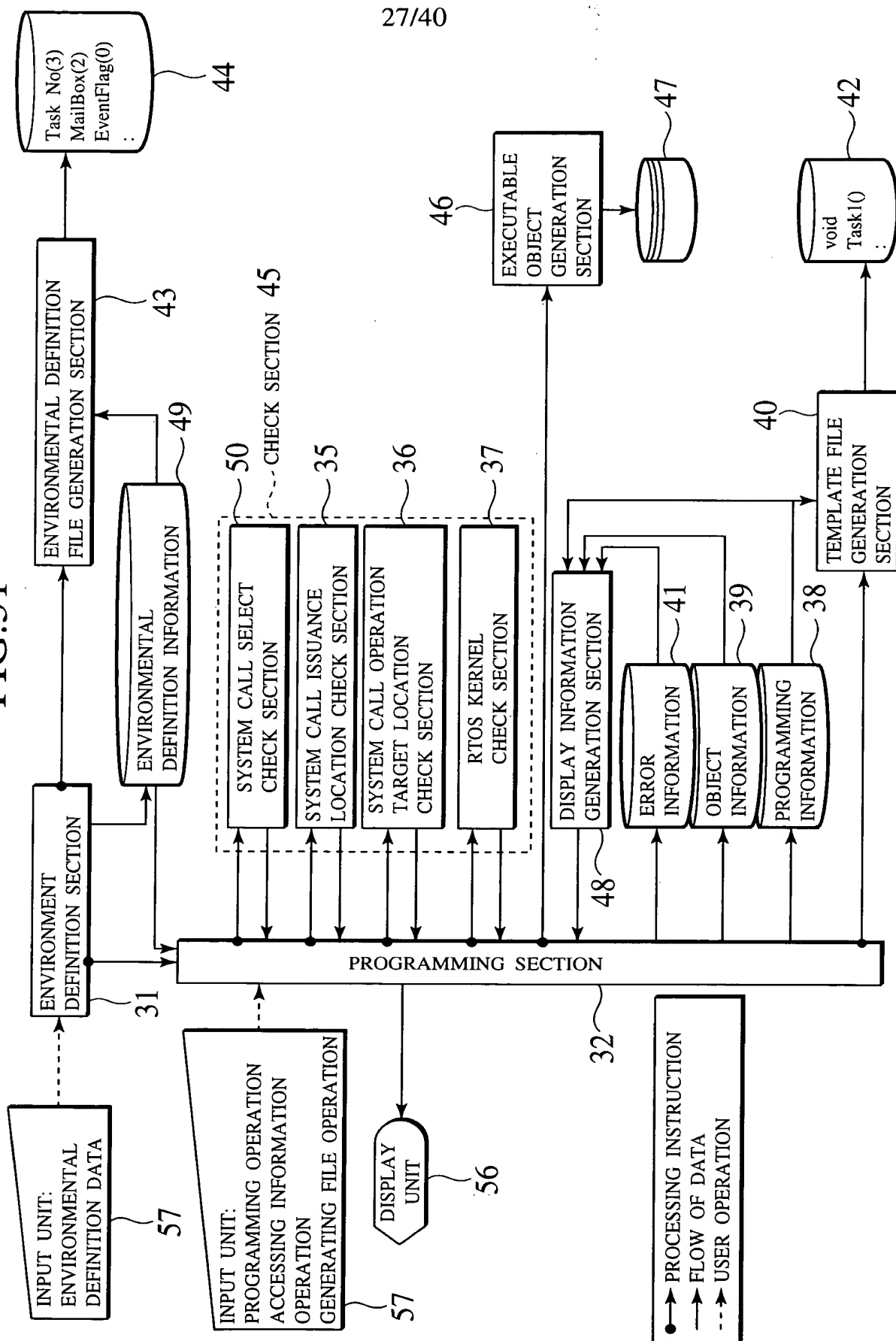


FIG.32

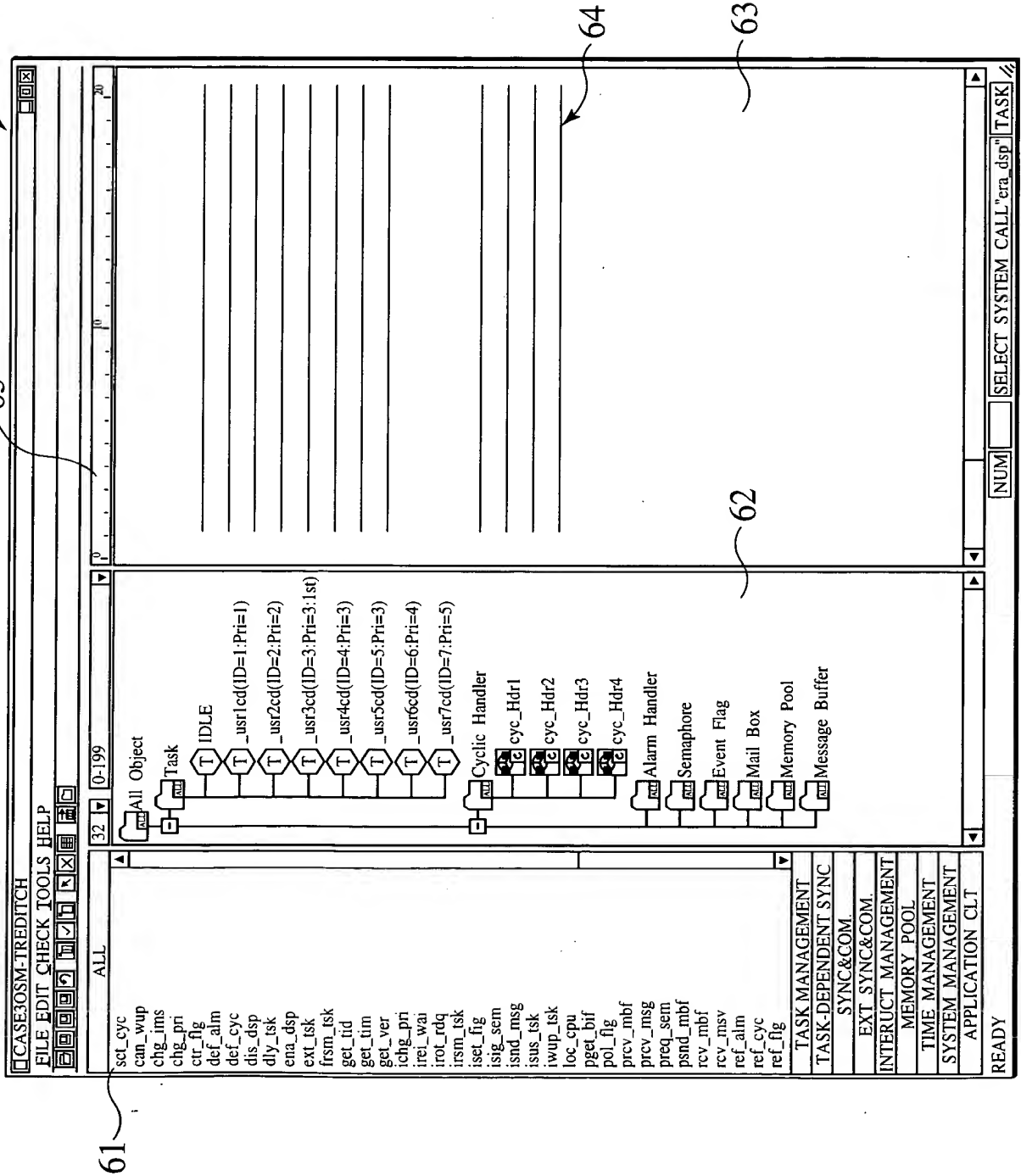


FIG.33

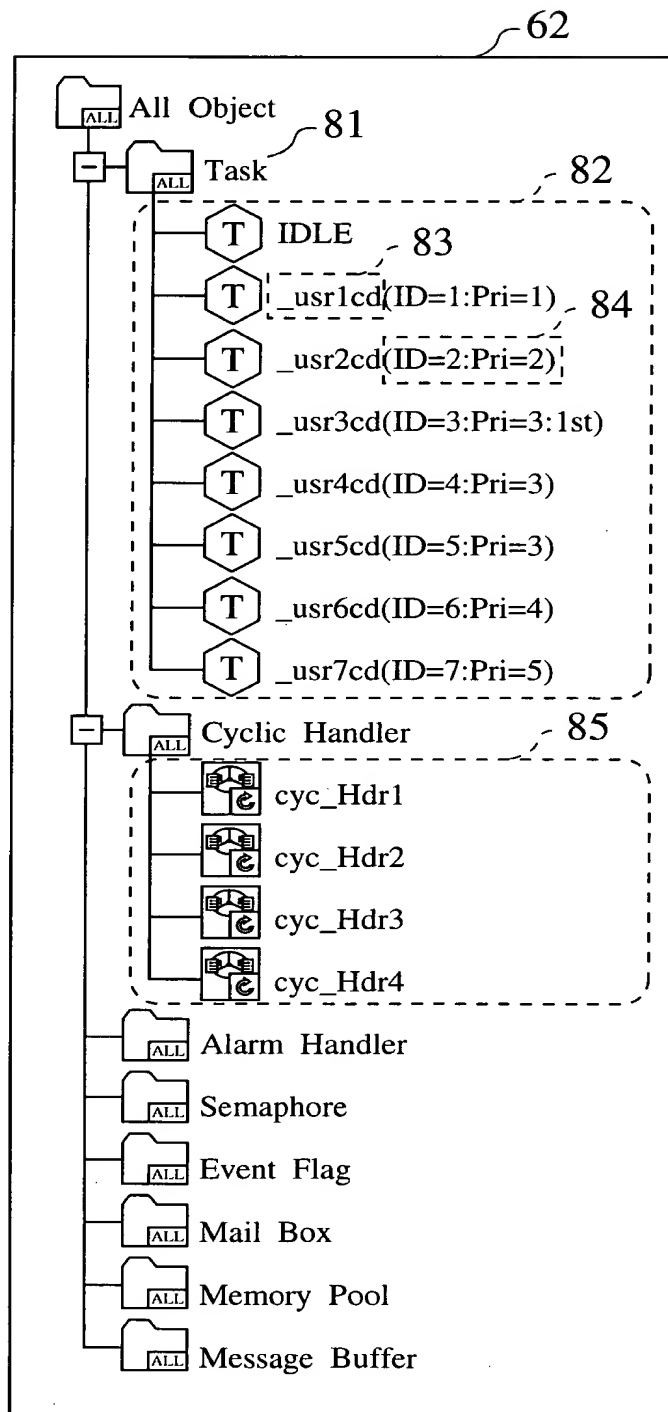
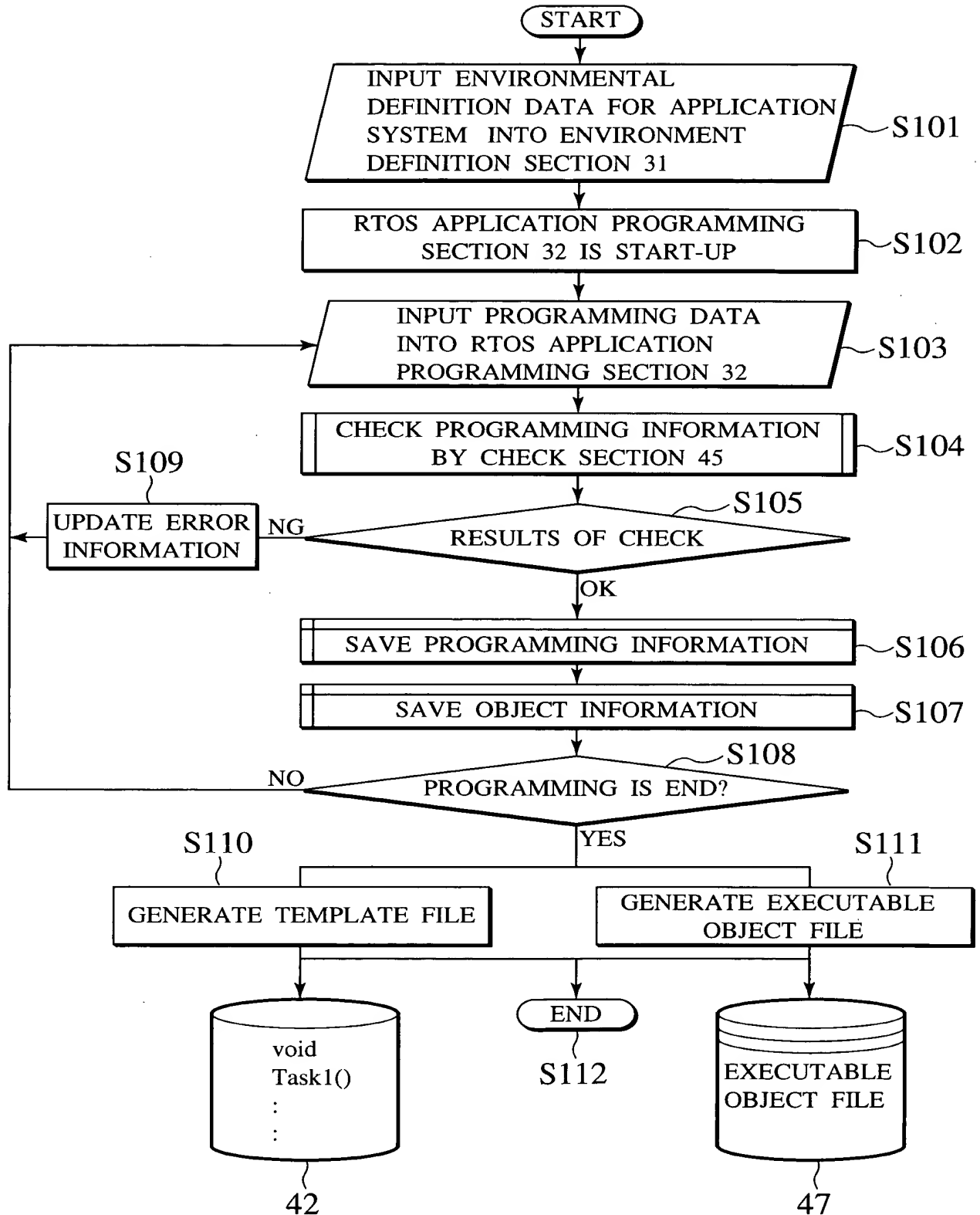


FIG.34



31/40
FIG.35

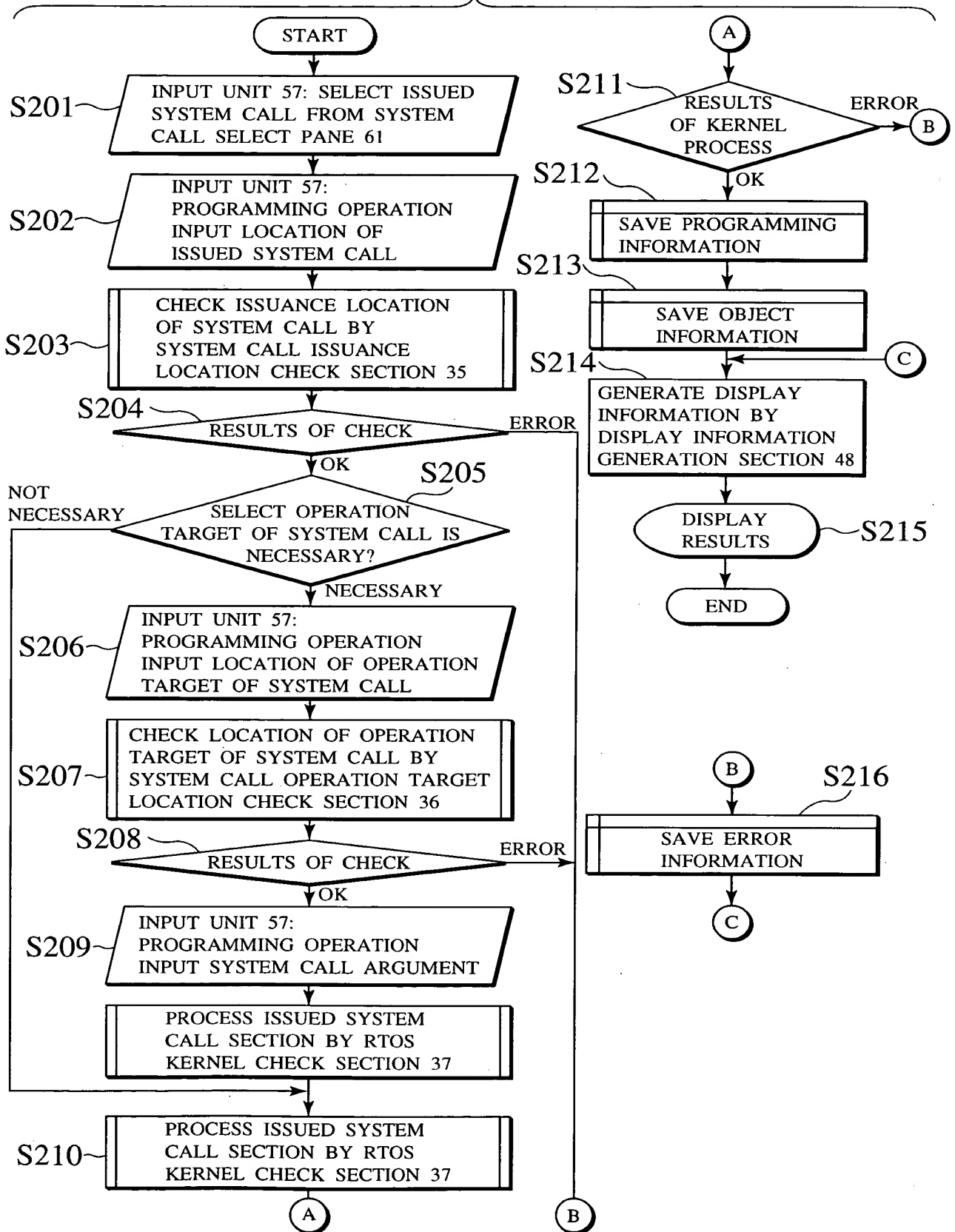


FIG.36

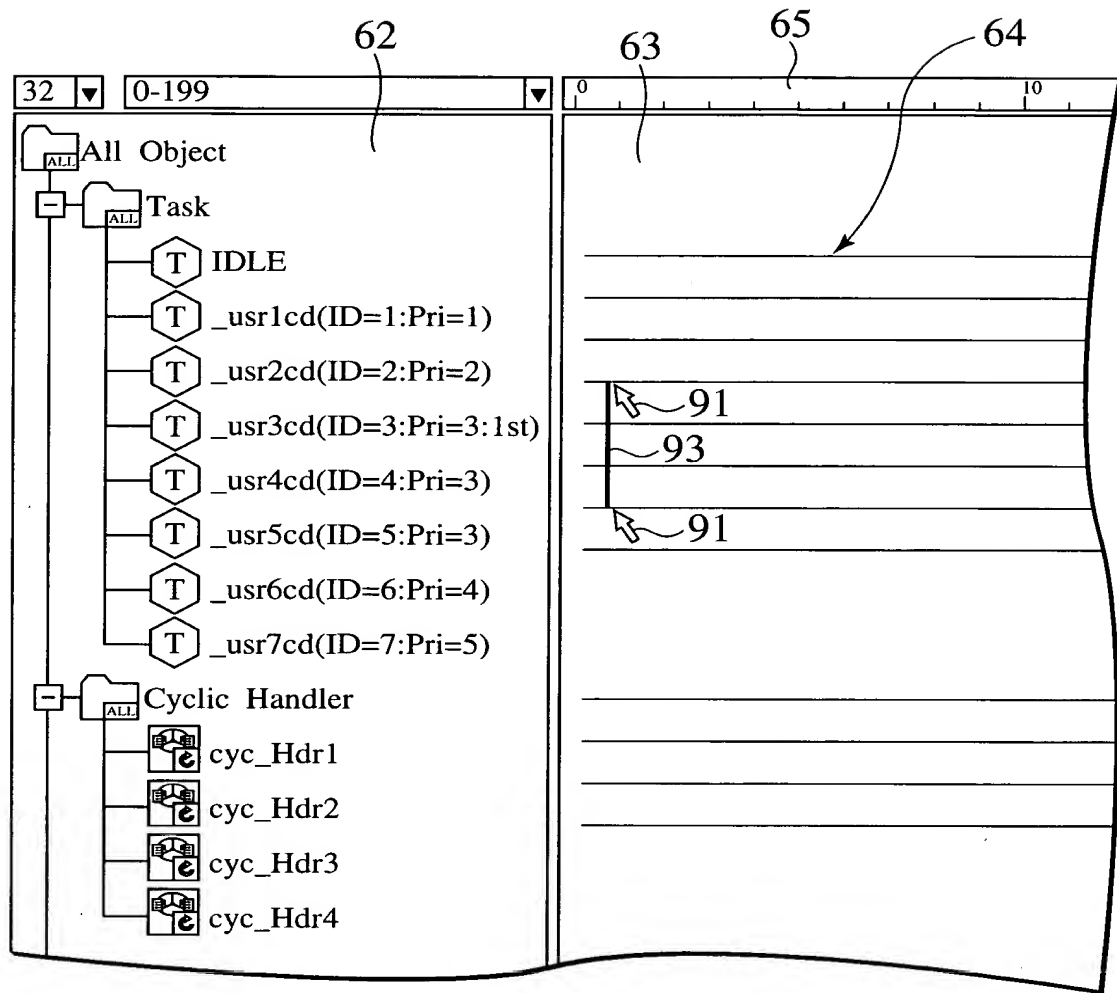


FIG.37

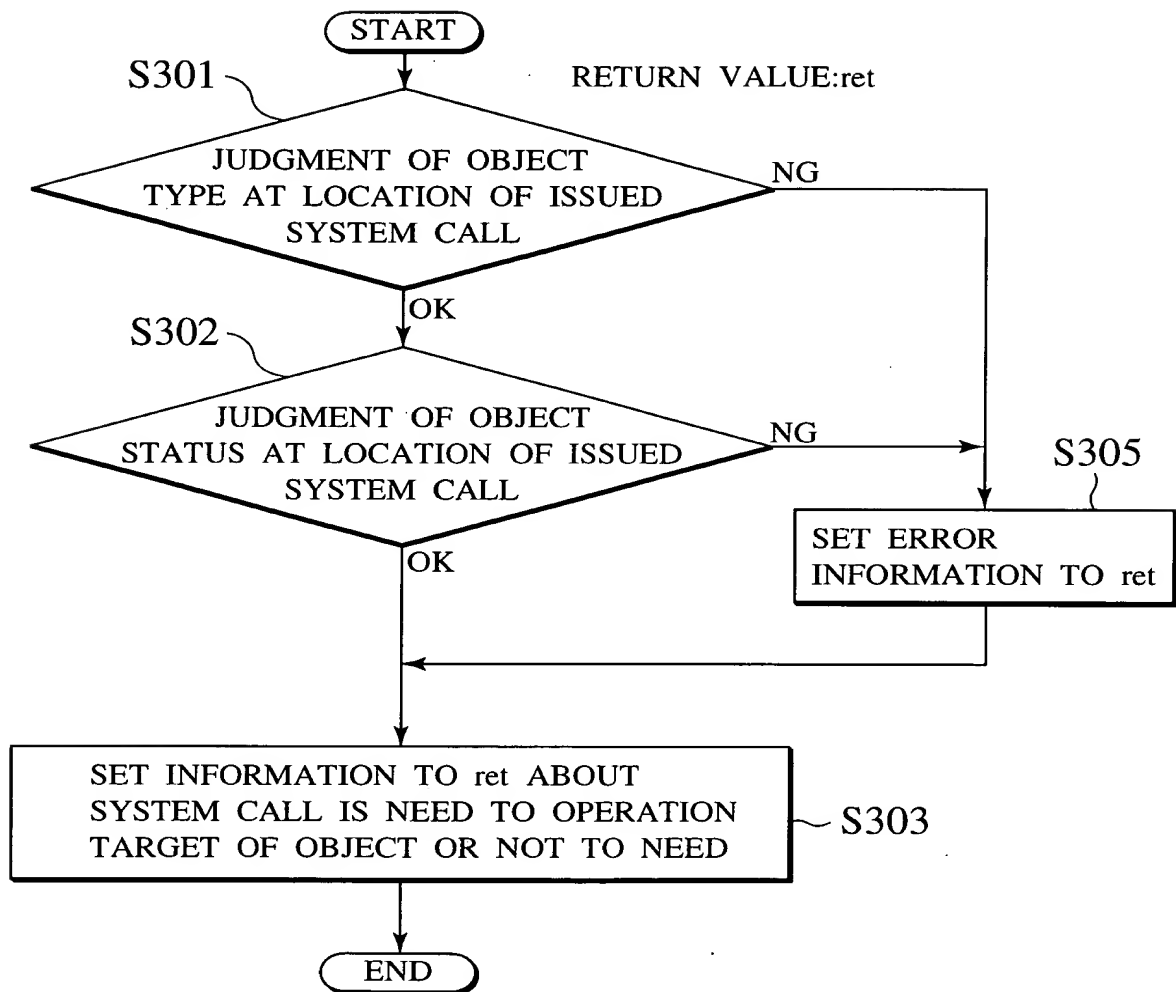


FIG.38

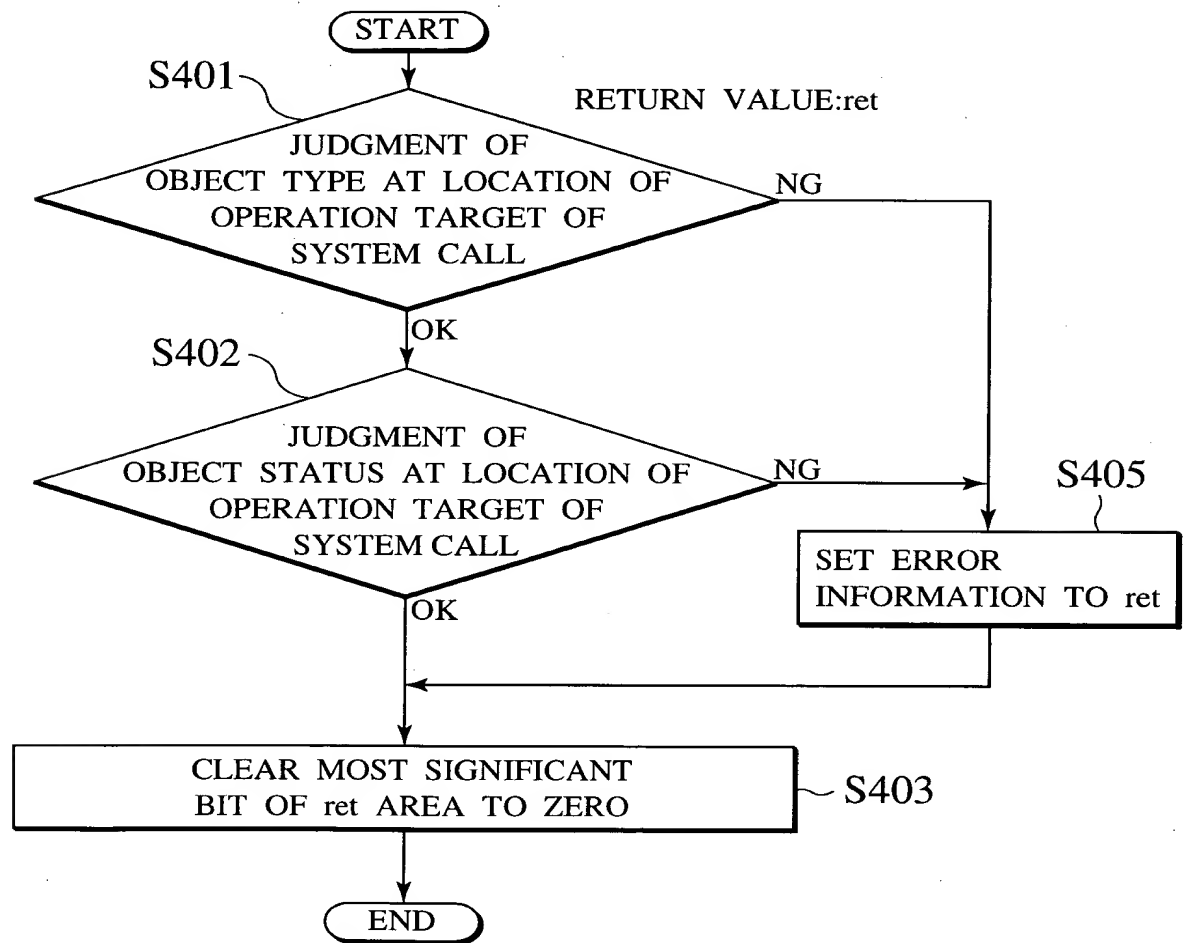


FIG.39

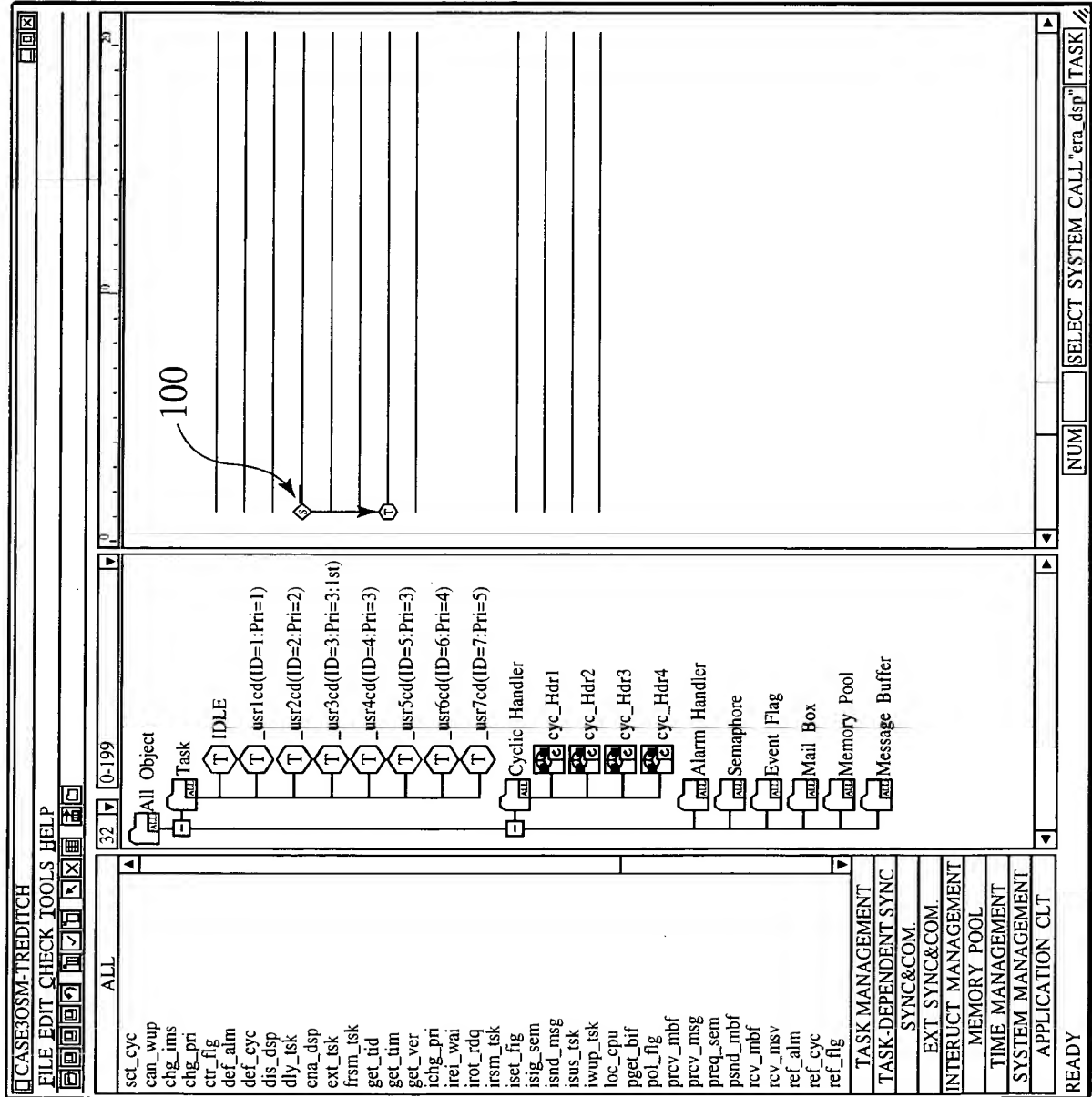


FIG. 40

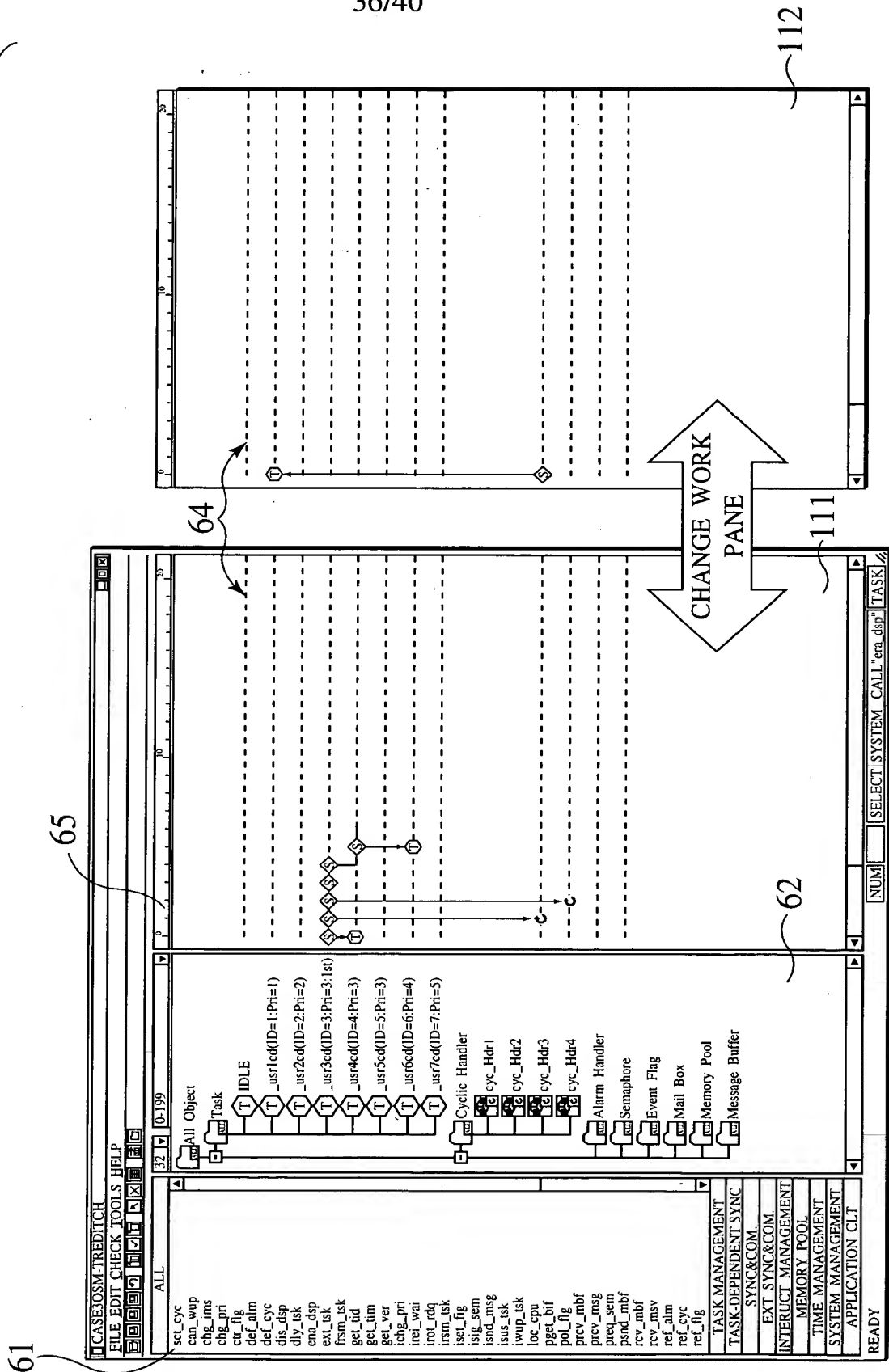


FIG.41

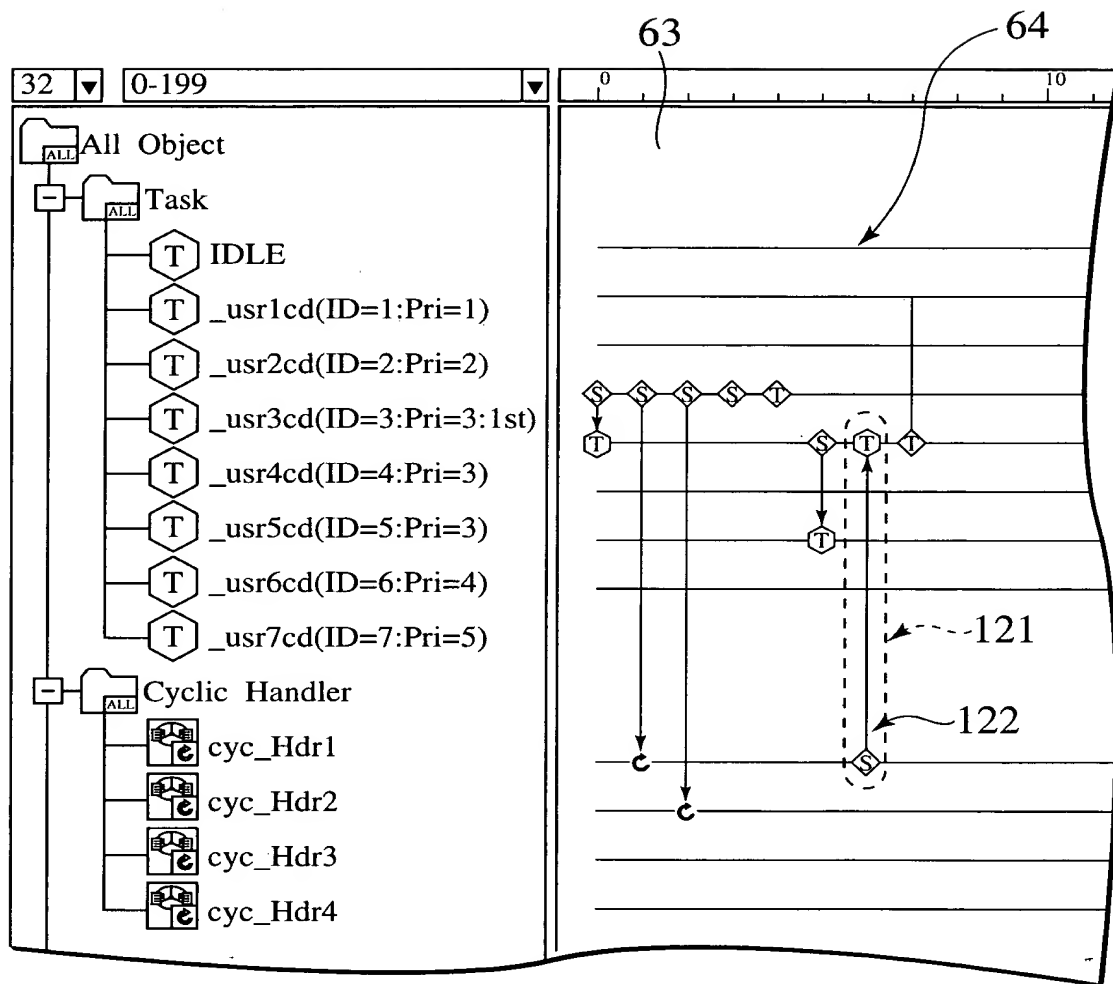
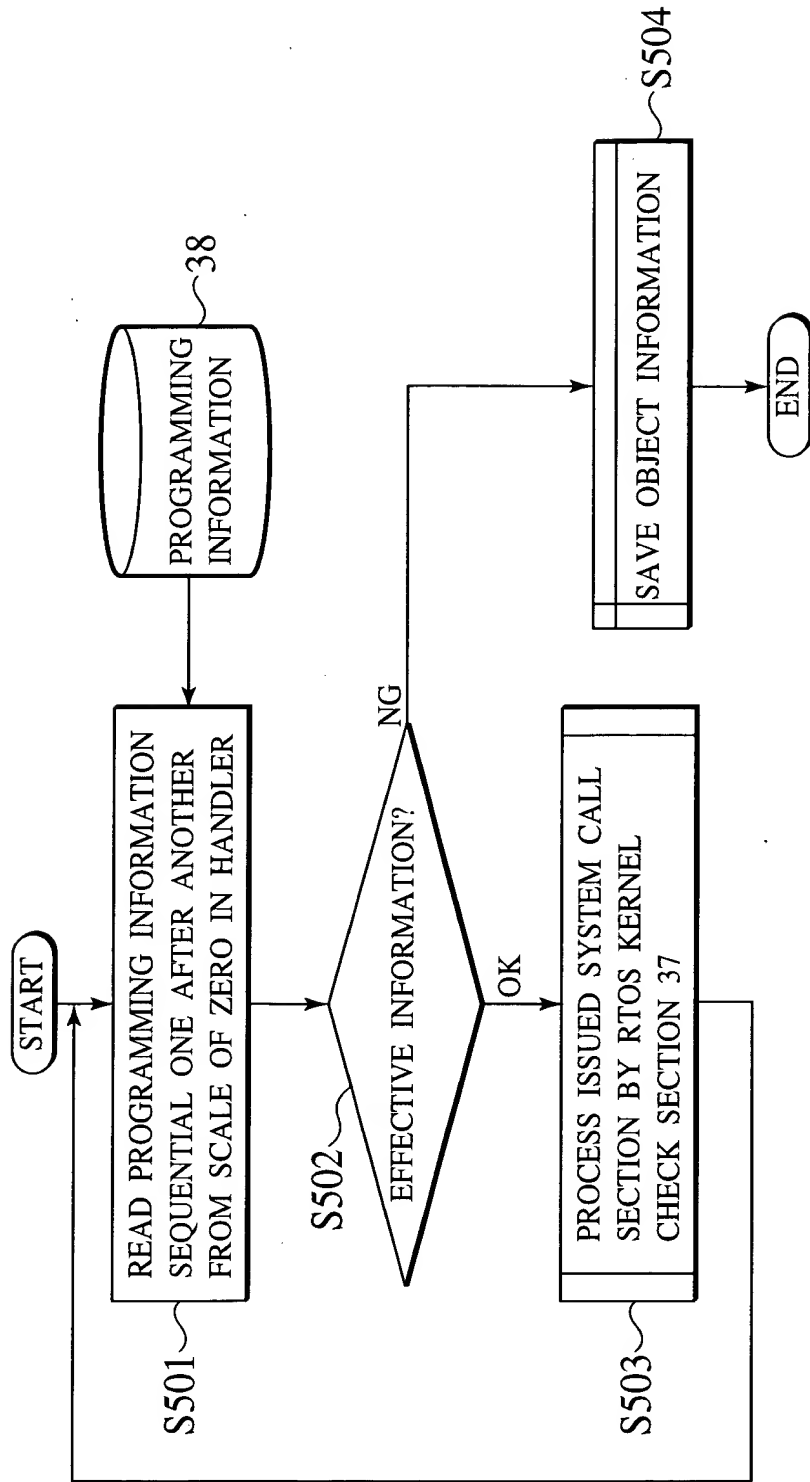


FIG.42



39/40
FIG.43

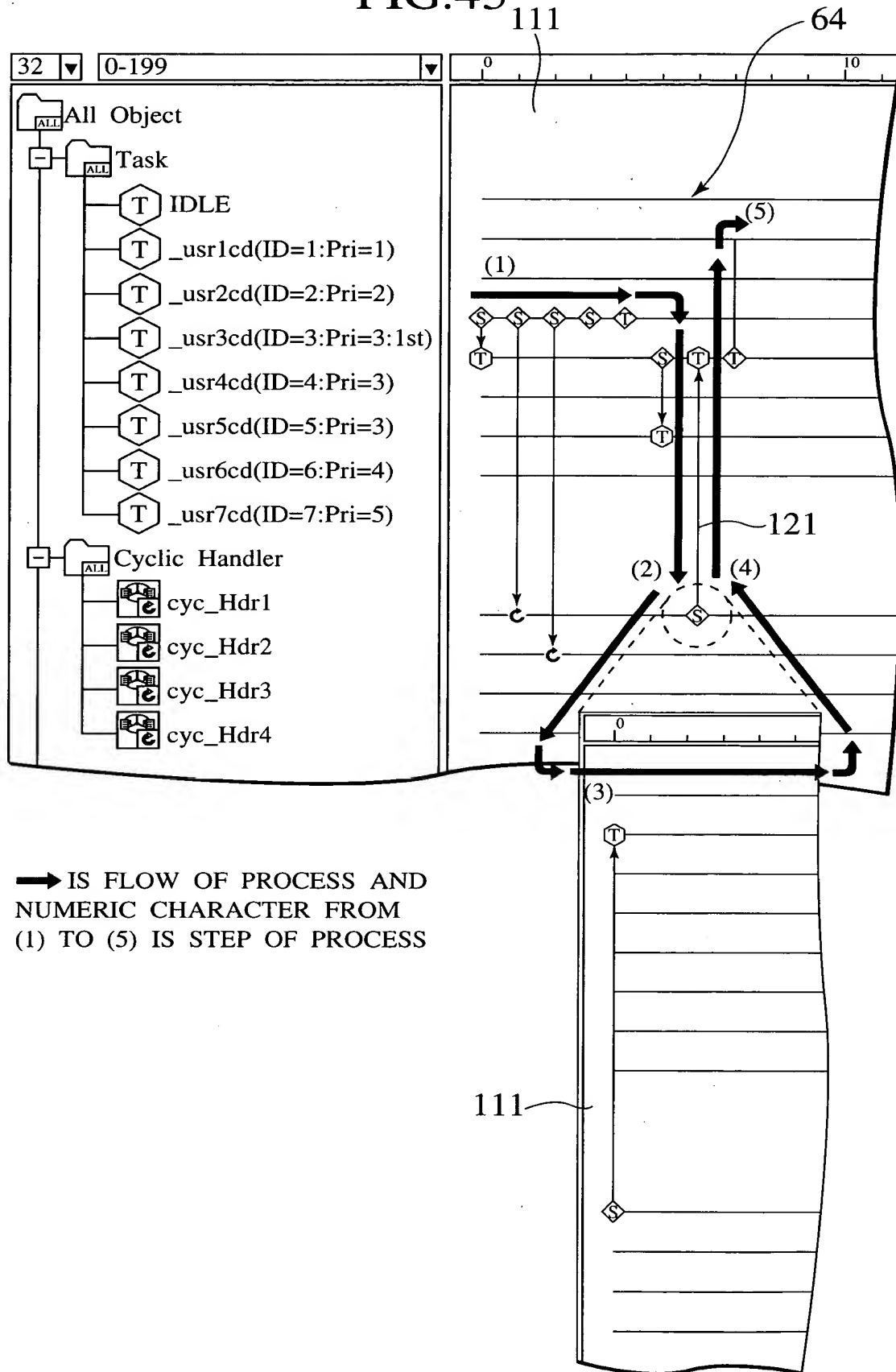


FIG.44

